



# **ROKOPOLS**

**POLYOLS BUSINESS UNIT**



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# PCC ROKITA SA

*“We are here to meet the needs of clients through our innovative chemical products and at the same time caring for the environment.”*

## Welcome

PCC Rokita SA, one of the leading chemical companies in Poland with over sixty years of experience, is part of the international PCC Group ([www.pcc.eu](http://www.pcc.eu)). PCC Rokita is a quality manufacturer of over 400 products used in many industries including:

- automotive,
- cosmetics,
- construction,
- furniture,
- household and industrial chemistry,
- plastics,
- textiles.



The company’s policy is aimed at meeting customer needs. This policy is expressed in our constant care for the highest quality of the products supplied, professional customer service and a dynamic commercial policy. For many years PCC Rokita has been a holder of the integrated Quality Management Standard ISO 9001 and of the Environmental Management Standard ISO 14001.

PCC Rokita has ongoing participation in the Responsible Care® initiative and adheres to its own strict internal norms, endeavouring to develop in all areas of its activities for the benefit of clients and the environment.

## PCC ROKITA – POLYOLS BUSINESS UNIT

We specialise in the production of polyether polyols known under the brand name of ROKOPOL®. PCC Rokita have been producing polyols for over thirty years, constantly improving their quality and aims to meet the growing demands of our customers from the rapidly expanding polyurethane industry by increasing our production capacity, supplying an ever widening range of products and by improving our customer service as well as offering innovative technical solutions.





## Characteristics and application of Rokopols

| Product | Hydroxyl Number | Structure                 | Functionality | Molecular Weight | Application   | Sector                |
|---------|-----------------|---------------------------|---------------|------------------|---|-----------------------|
| F3000   | 53 - 59         | Triol, based on glicerine | 3             | 3000             | Flexible polyurethane block foams for the furniture industry  | Furniture             |
| F3100*  | 53 - 59         | Triol, based on glicerine | 3             | 3100             | Flexible polyurethane block foams for the furniture industry and special application  | Furniture, CASE       |
| F3600   | 45 - 50         | Triol, based on glicerine | 3             | 3600             | Flexible polyurethane block foams for the furniture industry  | Furniture             |
| FS3140  | 32 - 36         | Polymer polyol            | 3             | >3000            | For production of flexible polyurethane slabstock foams exhibiting increased load bearing characteristics and other polyurethane plastics |                       |
| FS3625  | 37 - 41         | Polymer polyol            | 3             | 3600             | Flexible polyurethane block foams of increased hardness for the furniture industry  |                       |
| FS3610  | 42 - 47         | Polymer polyol            | 3             | 3600             |   |                       |
| RF2000  | 160 - 170       | Polyol based on sorbitol  | 4,5           | 2000             |   |                       |
| M6000   | 27 - 29         | Triol, based on glicerine | 3             | 6000             | Flexible, highly resilient, cold and hot-cured foams for the automotive and furniture industries  |                       |
| M6010*  | 27 - 29         | Triol, based on glicerine | 3             | 6000             |   |                       |
| M6020*  | 27 - 29         | Triol, based on glicerine | 3             | 6000             |   |                       |
| M5000   | 35 - 37         | Triol, based on glicerine | 3             | 4800             |   |                       |
| M5020*  | 35 - 37         | Triol, based on glicerine | 3             | 4800             |   |                       |
| MH2000  | 29 - 32         | Poliol based on sorbitol  | 6             | 12000            | Flexible, highly resilient, foams for the furniture industries  | Furniture             |
| MH2012  | 29 - 33         | Polymer polyol            | 4,5           | 12000            | Flexible, highly resilient, cold and hot-cured polyurethane block for the automotive and furniture industries.                            | Automotive, Furniture |
| MS5015  | 25 - 32         | Polymer polyol            | 3             | 4800             | Flexible, highly resilient, cold and hot-cured foams block for the automotive and furniture industries.                                   |                       |
| MS5025  | 25 29           | Polymer polyol            | 3             | 4800             |   |                       |
| MS5040  | 20 - 23         | Polymer polyol            | 3             | 4800             |   |                       |



| Product | Hydroxyl Number | Structure                      | Functionality | Molecular Weight | Application   | Sector                          |
|---------|-----------------|--------------------------------|---------------|------------------|---|---------------------------------|
| MS5215  | 28 - 32         | Polymer polyol                 | 3             | 4800             | Flexible, highly resilient, cold and hot-cured foams block for the automotive and furniture industries. | Automotive, Furniture           |
| MS5225  | 25 - 29         | Polymer polyol                 | 3             | 4850             |   |                                 |
| MS5240  | 20 - 23         | Polymer polyol                 | 3             | 4800             |   |                                 |
| M1170   | 30 - 36         | Triol, based on glicerine      | 3             | 5000             | Visco and Hypersoft Foam, Cell-er opener  |                                 |
| D1002   | 108 - 116       | Polypropylene glycol           | 2             | 1000             | Elastomers, adhesives, propolymers, spray foams for the building industry, CASE                         | Building                        |
| D2002   | 53 - 59         | Polypropylene glycol           | 2             | 2000             | Elastomers, adhesives, propolymers for the building industry, CASE                                      | Building                        |
| D450*   | 230 - 270       | Polypropylene glycol           | 2             | 450              | Elastomers, adhesives, hydraulic fluids for the building and hydraulic industries, CASE                 | Building, Hydraulic             |
| PE2500* | 40 - 50         | Diol, based on glycol          | 2             | 2500             | Compressor oils and hydraulic fluids  | hydraulic and industry machines |
| DE2010* | 53 - 59         | Reactive diol, based on glycol | 2             | 2000             | High performance coating, elastomers and sealants   | CASE, prepolymers, automotive   |
| DE4020  | 27 - 31         | Reactive diol, based on glycol | 2             | 4000             | High performance footwear, elastomers and automotive application  | CASE, prepolymers, automotive   |
| G1000   | 155 - 165       | Triol, based on glicerine      | 3             | 1000             | Rigid foams and CASE  | building                        |
| G441    | 330 - 360       | Triol, based on glicerine      | 3             | 440              | Rigid insulation foams, for the building and refrigeration industries, CASE                             | Building, Refrigeration         |
| G500    | 290 - 310       | Triol, based on glicerine      | 3             | 560              |   |                                 |
| G700    | 225 - 250       | Triol, based on glicerine      | 3             | 700              |   |                                 |
| RF4855* | 440 - 460       | Polyol, based on sorbitol      | 4,8           | 600              |   |                                 |
| RF551   | 400 - 440       | Polyol, based on sorbitol      | 4,5           | 800              | Rigid insulation foams simulating timber for the building industry                                      | Building                        |
| RF55    | 475 - 515       | Polyoxyalkylated sorbitol      | 4,5           | 550              | Rigid insulation foams, for the building and refrigeration industries.                                  | Building, Refrigeration         |
| V700    | 225 - 250       | Triol                          | 3             | 700              | For production of rigid and viscoelastic polyurethane foams and other                                   | Automotive, Furniture, building |
| V800    | 180 - 225       | Triol                          | 3             | 1200             |   |                                 |
| iPOL    | 47 - 54         | Reactive polymer polyol        | 3             | 4850             | Flexible, highly resilient, cold and hot-cured foams block for the automotive and furniture industries. | Furniture                       |

- \* Due to seasonality some products from the catalogue might not be available throughout the whole year. Certain polyols are produced solely to order upon prior arrangement with the sales department.



## ROKOPOL® F3000

Rokopol® F3000 is a polyoxyalkylene triol primarily designed for the production of “CME” (Combustion Modified Ether) flexible polyurethane foams. Contains BHT free antioxidants package.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 53 - 59                                 |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 460 - 520                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.01                                   |
| Molecular weight                            | g/mole            | ~3000                                   |
| Flash point                                 | °C                | >240                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® F3000.



# ROKOPOL® F3100

Rokopol® F3100 is a polyoxyalkylene triol designed for the production of flexible slab-stock polyurethane foam with a wide density range and very good resistance to “scorch”. Rokopol® F3100 contains an advanced BHT free antioxidant system.

## Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance at 25°C                          | -                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 53-59                                   |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 450 - 550                               |
| Density at 25°C                             | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight                            | g/mol             | ~3100                                   |
| Flash point                                 | °C                | ~250                                    |
| Color in Hazen scale                        | -                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® F3100.



## ROKOPOL® F3600

Rokopol® F3600 is a polyoxyalkylene triol designed for the production of flexible slabstock foams with a density range of 15-50 kg/m<sup>3</sup>. Rokopol® F3600 contains an advanced BHT free antioxidant system designed to reduce foam scorching.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 45 - 50                                 |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 540 - 620                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight                            | g/mole            | ~3600                                   |
| Flash point                                 | °C                | ~250                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® F3600.



# ROKOPOL® FS3140

Rokopol® FS3140 is a suspension of styrene-acrylonitrile polymer particles in a polyoxyalkylene triol based on glycerin. It is designed for the production of flexible polyurethane slabstock foams exhibiting increased load bearing characteristics. Contains BHT free antioxidants package.

## Typical properties

| Property           | Unit              | Value                |
|--------------------|-------------------|----------------------|
| Appearance at 25°C | –                 | white, opaque liquid |
| Hydroxyl value     | mg KOH/g          | 32 ÷ 36              |
| Water content      | %                 | max. 0.1             |
| Viscosity at 25°C  | mPas              | 3000 ÷ 7000          |
| Density at 25°C    | g/cm <sup>3</sup> | ~ 1,04               |
| Molecular weight   | g/mol             | ~ 3100               |
| Flash point        | °C                | > 200                |
| Solid content      | % (m/m)           | ~ 40                 |
| Acidity            | mg KOH/g          | max. 0.1             |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® FS3140.



## ROKOPOL® FS3625

Rokopol® FS3625 is a suspension of styrene-acrylonitrile polymer particles in a polyoxyalkylene triol based on glycerin. It is designed for the production of flexible polyurethane slabstock foams exhibiting increased load bearing characteristics and other polyurethane products. Contains BHT free antioxidants package.

### Typical properties

| Property           | Unit              | Value                |
|--------------------|-------------------|----------------------|
| Appearance at 25°C | –                 | white, opaque liquid |
| Hydroxyl value     | mg KOH/g          | 37 ÷ 41              |
| Water content      | %                 | max. 0.1             |
| Viscosity at 25°C  | mPas              | 1300 ÷ 1800          |
| Density at 25°C    | g/cm <sup>3</sup> | ~ 1,03               |
| Molecular weight   | g/mol             | ~ 3600               |
| Flash point        | °C                | > 200                |
| Solid content      | % (m/m)           | ~ 25                 |
| Acidity            | mg KOH/g          | max. 0.1             |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® FS3625.



# ROKOPOL® FS3610

Rokopol® FS3610 is a suspension of styrene-acrylonitrile polymer particles in a polyoxyalkylene triol and is designed for the production of flexible polyurethane slabstock foams exhibiting increased load bearing characteristics. Rokopol® FS3610 contains an advanced BHT free antioxidant system designed to reduce foam scorching.

## Typical properties

| Property          | Unit              | Value               |
|-------------------|-------------------|---------------------|
| Appearance        | –                 | white opaque liquid |
| Hydroxyl value    | mg KOH/g          | 42 - 47             |
| Water content     | %                 | max. 0.1            |
| Viscosity at 25°C | mPas              | 700 - 900           |
| Density (at 25°C) | g/cm <sup>3</sup> | ~1.02               |
| Flash point       | °C                | >200                |
| Solids content    | %                 | ~10                 |
| Acidity           | mg KOH/g          | max. 0.1            |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® F3610.



# ROKOPOL® RF2000

Rokopol® RF2000 is a sorbitol based polyether polyol and is designed for use in the production of flexible polyurethane foams with higher hardness. Rokopol® RF2000 contains an advanced BHT free antioxidant system.

## Typical properties

| Property              | Unit              | Value                                   |
|-----------------------|-------------------|---|
| Appearance            | –                 | clear liquid free from suspended matter |
| Hydroxyl value        | mg KOH/g          | 160 - 170                               |
| Water content         | %                 | max. 0.1                                |
| Viscosity at 25°C     | mPas              | 500 - 700                               |
| Density (at 25°C)     | g/cm <sup>3</sup> | ~1.04                                   |
| Molecular weight      | g/mole            | ~2000                                   |
| Flash point           | °C                | ~260                                    |
| Colour in Hazen scale | –                 | max. 100                                |
| Acidity               | mg KOH/g          | max. 0.1                                |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® RF2000.



## ROKOPOL® M6000

Rokopol® M6000 is a high molecular weight polyoxyalkylene triol particularly suitable for the production of high resilience moulded and slabstock foams. It is also recommended for use in systems for semi-flexible foam mouldings and in specialised slabstock foam production where high hardness foams are required. It also may be used in systems for microcellular foams and polyurethane elastomers manufacture. Rokopol® M6000 contains an advanced BHT free antioxidant system.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 27 - 29                                 |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 1100 - 1300                             |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight                            | g/mole            | ~6000                                   |
| Flash point                                 | °C                | >200                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® M6000.



## ROKOPOL® M6010

Rokopol® M6010 is a reactive polyoxyalkylene triol suitable for the production of high resilience (HR) block and moulded polyurethane foams and other polyurethane plastics. Rokopol® M6010 contains an advanced BHT free antioxidant system.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance at 25°C                          | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 27 - 29                                 |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 1100 - 1300                             |
| Density at 25°C                             | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight                            | g/mole            | ~6000                                   |
| Flash point                                 | °C                | >200                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® M6010.



## ROKOPOL® M6020

Rokopol® M6020 is a reactive polyoxyalkylene triol suitable for the production of high resilience (HR) block and moulded polyurethane foams and other polyurethane plastics. Rokopol® M6020 contains an advanced BHT free antioxidant system.

### Typical properties

| Property                                    | Unit     | Value   |
|---|----------|---|
| Appearance at 25°C                          | –        | clear liquid free from suspended matter, possibility of opalescence |
| Hydroxyl value                              | mg KOH/g | 27 - 29   |
| Water content                               | %        | max. 0.1  |
| Viscosity at 25°C                           | mPas     | 1100 - 1300   |
| Density at 25°C                             | g/ml     | ~1.02   |
| Molecular weight                            | g/mole   | ~6000   |
| Flash point                                 | °C       | >200  |
| Colour in Hazen scale                       | –        | max. 50   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l     | max. 5  |
| Acidity                                     | mg KOH/g | max. 0.1  |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® M6020.



## ROKOPOL® M5000

Rokopol® M5000 is a reactive polyoxyalkylene triol with major applications in cold and hot cure mouldings. It is recommended in systems for semi-flexible foam mouldings and can be used in slabstock foam production, particularly for high hardness foams. It can also be used in systems for microcellular foams and polyurethane elastomers manufacture. Rokopol® M5000 contains an advanced BHT free antioxidant system.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 35 - 37                                 |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 700 - 900                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight                            | g/mole            | ~4800                                   |
| Flash point                                 | °C                | >200                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® M5000.



## ROKOPOL® M5020

Rokopol® M5020 is a reactive polyoxyalkylene triol suitable for the production of high resilience (HR) block and moulded polyurethane foams and other polyurethane plastics. Rokopol® M5020 contains an advanced BHT free antioxidant system.

### Typical properties

| Property              | Unit              | Value                                   |
|-----------------------|-------------------|---|
| Appearance at 25°C    | –                 | clear liquid free from suspended matter |
| Hydroxyl value        | mg KOH/g          | 33 - 38                                 |
| Water content         | %                 | max. 0.1                                |
| Viscosity at 25°C     | mPa·s             | 700 - 1000                              |
| Density at 25°C       | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight      | g/mole            | ~4850                                   |
| Flash point           | °C                | >200                                    |
| Colour in Hazen scale | –                 | max. 50                                 |
| Acidity               | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Maximum storage temperature 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® M5020.



## ROKOPOL® MH2000

Rokopol® MH2000 is a reactive high functionality polyoxyalkylene triol suitable for the production of high resilience slabstock and moulded foams and other polyurethane plastics. Rokopol® MH2000 contains an advanced BHT free antioxidant system.

### Typical properties

| Property              | Unit              | Value   |
|-----------------------|-------------------|---|
| Appearance at 25°C    | –                 | clear liquid free from suspended matter, possibility of opalescence |
| Hydroxyl value        | mg KOH/g          | 29 - 32   |
| Water content         | %                 | max. 0.1  |
| Viscosity at 25°C     | mPas              | 1200 - 1700   |
| Density at 25°C       | g/cm <sup>3</sup> | ~1.03   |
| Molecular weight      | g/mole            | ~12000  |
| Flash point           | °C                | >200  |
| Colour in Hazen scale | –                 | max. 50   |
| Acidity               | mg KOH/g          | max. 0.1  |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MH2000.



# ROKOPOL® MH2012

Rokopol® MH2012 is a suspension of styrene-acrylonitrile copolymer in reactive polyoxyalkylated triol and is designed for the production of high resilience slabstock and molded polyurethane foams as well as other polyurethane products. Contains BHT free antioxidants package.

## Typical properties

| Property           | Unit              | Value                 |
|--------------------|-------------------|-----------------------|
| Appearance at 25°C | –                 | white, opaque liquid  |
| Hydroxyl value     | mg KOH/g          | 27 ÷ 30               |
| Water content      | %                 | max. 0.1              |
| Viscosity at 25°C  | mPas              | 1500 ÷ 2500           |
| Density at 25°C    | g/cm <sup>3</sup> | ~ 1,02                |
| Molecular weight   | g/mol             | ~ 12000 (base polyol) |
| Flash point        | °C                | > 200                 |
| Solid content      | % (m/m)           | ~ 12                  |
| Acidity            | mg KOH/g          | max. 0.1              |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MH2012.



# ROKOPOL® MS5015

Rokopol® MS5015 is a suspension of styrene-acrylonitrile copolymer in a polyoxyalkylene polyol designed for the production of hot and cold cure mouldings and high resilience slabstock foams exhibiting increased load bearing characteristics. Rokopol® MS5015 contains an advanced BHT free antioxidant system.

## Typical properties

| Property          | Unit              | Value                |
|-------------------|-------------------|----------------------|
| Appearance        | –                 | white opaque liquid  |
| Hydroxyl value    | mg KOH/g          | 29 - 32              |
| Water content     | %                 | max. 0.1             |
| Viscosity at 25°C | mPa·s             | 1200 - 1800          |
| Density (at 25°C) | g/cm <sup>3</sup> | ~1.03                |
| Molecular weight  | g/mol             | ~ 4800 (base polyol) |
| Flash point       | °C                | >200                 |
| Solids content    | %                 | ~15                  |
| Acidity           | mg KOH/g          | max. 0.1             |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MS5015.



# ROKOPOL® MS5025

Rokopol® MS5025 is a suspension of styrene-acrylonitrile copolymer in reactive oxyalkylated triol and is designed for the production of high resilience slabstock, moulded polyurethane foams and other polyurethane products. Contains BHT free antioxidants package.

## Typical properties

| Property           | Unit              | Value                |
|--------------------|-------------------|----------------------|
| Appearance at 25°C | –                 | white, opaque liquid |
| Hydroxyl value     | mg KOH/g          | 25 ÷ 29              |
| Water content      | %                 | max. 0.1             |
| Viscosity at 25°C  | mPas              | 2000 ÷ 3000          |
| Density at 25°C    | g/cm <sup>3</sup> | ~ 1,03               |
| Molecular weight   | g/mol             | ~ 4800 (base polyol) |
| Flash point        | °C                | > 200                |
| Solid content      | % (m/m)           | ~ 25                 |
| Acidity            | mg KOH/g          | max. 0.1             |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MS5025.



# ROKOPOL® MS5040

Rokopol® MS5040 is a suspension of styrene-acrylonitrile copolymer in a polyoxyalkylene polyol designed for the production of hot and cold cure mouldings and high resilience slabstock foams exhibiting increased load bearing characteristics. Rokopol® MS5040 contains an advanced BHT free antioxidant system.

## Typical properties

| Property          | Unit              | Value                |
|-------------------|-------------------|----------------------|
| Appearance        | –                 | white opaque liquid  |
| Hydroxyl value    | mg KOH/g          | 20 - 23              |
| Water content     | %                 | max. 0.1             |
| Viscosity at 25°C | mPa·s             | 4000 - 8000          |
| Density (at 25°C) | g/cm <sup>3</sup> | ~1.03                |
| Molecular weight  | g/mol             | ~ 4800 (base polyol) |
| Flash point       | °C                | >200                 |
| Solids content    | %                 | ~40                  |
| Acidity           | mg KOH/g          | max. 0.1             |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MS5040.



# ROKOPOL® MS5215

Rokopol® MS5215 is a suspension of styrene-acrylonitrile copolymer in reactive polyoxyalkylene triol suitable for the production of moulded and high resilience slabstock foams and other polyurethane plastics. Rokopol® MS5215 contains an advanced BHT free antioxidant system.

## Typical properties

| Property           | Unit              | Value                |
|--------------------|-------------------|----------------------|
| Appearance at 25°C | –                 | white, opaque liquid |
| Hydroxyl value     | mg KOH/g          | 28 - 31              |
| Water content      | %                 | max. 0.1             |
| Viscosity at 25°C  | mPas              | 1200 - 1800          |
| Density at 25°C    | g/cm <sup>3</sup> | ~1.025               |
| Molecular weight   | g/mole            | ~ 4800 (base polyol) |
| Flash point        | °C                | >200                 |
| Solid content      | %                 | ~15                  |
| Acidity            | mg KOH/g          | max. 0.1             |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MS5215.



## ROKOPOL® MS5225

Rokopol® MS5225 is a suspension of styrene-acrylonitrile copolymer in reactive polyoxyalkylated triol and is designed for the production of high resilience slabstock, moulded polyurethane foams and other polyurethane products. Contains BHT free antioxidants package.

### Typical properties

| Property           | Unit              | Value                |
|--------------------|-------------------|----------------------|
| Appearance at 25°C | –                 | white, opaque liquid |
| Hydroxyl value     | mg KOH/g          | 25 ÷ 29              |
| Water content      | %                 | max. 0.1             |
| Viscosity at 25°C  | mPas              | 2000 ÷ 3000          |
| Density at 25°C    | g/cm <sup>3</sup> | ~ 1,03               |
| Molecular weight   | g/mol             | ~ 4850 (base polyol) |
| Flash point        | °C                | > 200                |
| Solid content      | % (m/m)           | ~ 25                 |
| Acidity            | mg KOH/g          | max. 0.1             |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MS5225.



# ROKOPOL® MS5240

Rokopol® MS5240 is a suspension of styrene-acrylonitrile copolymer in reactive polyoxyalkylene triol suitable for the production of moulded and high resilience slabstock foams and other polyurethane plastics. Rokopol® MS5240 contains an advanced BHT free antioxidant system.

## Typical properties

| Property           | Unit              | Value                |
|--------------------|-------------------|----------------------|
| Appearance at 25°C | –                 | white, opaque liquid |
| Hydroxyl value     | mg KOH/g          | 20 - 23              |
| Water content      | %                 | max. 0.1             |
| Viscosity at 25°C  | mPa·s             | 4000 - 8000          |
| Density at 25°C    | g/cm <sup>3</sup> | ~1.04                |
| Molecular weight   | g/mole            | ~ 4800 (base polyol) |
| Flash point        | °C                | >200                 |
| Solid content      | %                 | ~40                  |
| Acidity            | mg KOH/g          | max. 0.1             |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® MS5240.



## ROKOPOL® M1170

Rokopol® M1170 is a polyoxyalkylene block copolymer suitable for the production of soft and hypersoft slabstock foams with a wide density range and as a cell opening additive for high resilience foams. Rokopol® M1170 contains an advanced BHT free antioxidant system.

### Typical properties

| Property           | Unit              | Value   |
|--------------------|-------------------|---|
| Appearance at 25°C | –                 | liquid free from suspended matter with possibility of opalescence |
| Hydroxyl value     | mg KOH/g          | 30 - 36   |
| Water content      | %                 | max. 0.1  |
| Viscosity at 25°C  | mPas              | 1200 - 1500   |
| Viscosity at 20°C  | mPas              | ~1600   |
| Density at 25°C    | g/cm <sup>3</sup> | ~1.09   |
| Molecular weight   | g/mole            | ~5000   |
| Flash point        | °C                | >250  |
| Acidity            | mg KOH/g          | max. 0.1  |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® M1170.



## ROKOPOL® D1002

Rokopol® D1002 is a high purity polyoxypropylene glycol of molecular weight 1000. It is designed as an intermediate for the production of polyurethane elastomers, coatings, adhesives, speciality foams and as one of the main raw materials for spray (mist) coatings.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 108 - 116                               |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 130 - 170                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight                            | g/mole            | ~1000                                   |
| Flash point                                 | °C                | ~200                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® D1002.



## ROKOPOL® D2002

Rokopol® D2002 is a high purity polyoxypropylene glycol of molecular weight 2000. It is designed as an intermediate for the production of polyurethane elastomers, coatings, adhesives, speciality foams and as a component in hydraulic and brake fluids.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 53 - 59                                 |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 280 - 380                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.04                                   |
| Molecular weight                            | g/mole            | ~2000                                   |
| Flash point                                 | °C                | ~200                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                                  |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® D2002.



## ROKOPOL® D450

Rokopol® D450 is a high purity polyoxypropylene glycol of molecular weight 450. It is designed as an intermediate for the production of polyurethane elastomers, coatings, adhesives, speciality foams and as a component in hydraulic and brake fluids.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 230 - 270                               |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 60 - 70                                 |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.004                                  |
| Molecular weight                            | g/mole            | ~450                                    |
| Flash point                                 | °C                | >220                                    |
| Colour in Hazen scale                       | –                 | max. 100                                |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 10                                 |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® D450.



## ROKOPOL® PE2500

Rokopol® PE2500 is a high purity polyoxyalkylene diol of molecular weight 2500. It is primarily designed as a compressor oil.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 40 - 50                                 |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 180 - 240                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.07                                   |
| Molecular weight                            | g/mole            | ~2500                                   |
| Flash point                                 | °C                | >200                                    |
| Colour in Hazen scale                       | –                 | max. 100                                |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 10                                 |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 12 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® PE2500.



# ROKOPOL® DE2010

Rokopol® DE2010 is a reactive polyoxyalkylated polyether polyol based on propylene glycol. It is designed as an intermediate for the production of prepolymers and other polyurethane products including certain automotive applications. Contains BHT free antioxidants package.

## Typical properties

| Property                                    | Unit              | Value                     |
|---|-------------------|---------------------------|
| Appearance at 25°C                          | –                 | homogeneous, clear liquid |
| Hydroxyl value                              | mg KOH/g          | 53 ÷ 59                   |
| Water content                               | %                 | max. 0.1                  |
| Viscosity at 25°C                           | mPas              | 300 ÷ 400                 |
| Density at 25°C                             | g/cm <sup>3</sup> | ~1.01                     |
| Molecular weight                            | g/mol             | ~ 2000                    |
| Flash point                                 | °C                | > 200                     |
| Colour in Hazen scale                       | –                 | max. 50                   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                    |
| Acidity                                     | mg KOH/g          | max. 0.1                  |

## Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

## Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® DE2010.



## ROKOPOL® DE4020

Rokopol® DE4020 is a reactive polyoxyalkylated polyether polyol based on propylene glycol. It is designed as an intermediate for the production of prepolymers and other polyurethane products including molding and automotive applications. Contains BHT free antioxidants package.

### Typical properties

| Property                                    | Unit              | Value                     |
|---|-------------------|---------------------------|
| Appearance at 25°C                          | –                 | homogeneous, clear liquid |
| Hydroxyl value                              | mg KOH/g          | 27 ÷ 31                   |
| Water content                               | %                 | max. 0.1                  |
| Viscosity at 25°C                           | mPas              | 720 ÷ 920                 |
| Density at 25°C                             | g/cm <sup>3</sup> | ~ 1.02                    |
| Molecular weight                            | g/mol             | ~ 4000                    |
| Flash point                                 | °C                | > 200                     |
| Colour in Hazen scale                       | –                 | max. 50                   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                    |
| Acidity                                     | mg KOH/g          | max. 0.1                  |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® DE4020.



## ROKOPOL® G1000

Rokopol® G1000 is a high purity polyoxypropylene triol of molecular weight 1000. It is designed as an intermediate for the production of polyurethane elastomers, single spray foam, coatings, adhesives, impregnants and varnishes.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 155 - 165                               |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 200 - 300                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.02                                   |
| Molecular weight                            | g/mole            | ~1000                                   |
| Flash point                                 | °C                | ~230                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 10                                 |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® G1000.



## ROKOPOL® G441

Rokopol® G441 is a high purity polyoxyalkylene triol of low molecular weight. It is designed as an intermediate for the production of polyurethane elastomers, coatings, adhesives, impregnants and varnishes.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 330 - 360                               |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 250 - 310                               |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.07                                   |
| Molecular weight                            | g/mole            | ~440                                    |
| Flash point                                 | °C                | ~230                                    |
| Colour in Hazen scale                       | –                 | max. 50                                 |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 10                                 |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® G441.



## ROKOPOL® G500

Rokopol® G500 is a high purity polyoxypropylene triol of molecular weight 560. It is designed as an intermediate for the production of polyurethane elastomers, coatings, adhesives, impregnants and varnishes. Rokopol® G500 can also be used as the major polyol in high density rigid moulding systems.

### Typical properties

| Property                                    | Unit              | Value  |
|---|-------------------|--|
| Appearance                                  | –                 | straw coloured clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 290 - 310  |
| Water content                               | %                 | max. 0.1   |
| Viscosity at 25°C                           | mPas              | 240 - 340  |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.05  |
| Molecular weight                            | g/mole            | ~560   |
| Flash point                                 | °C                | >200   |
| Colour in Hazen scale                       | –                 | max. 100   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 10  |
| Acidity                                     | mg KOH/g          | max. 0.1   |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® G500.



## ROKOPOL® G700

Rokopol® G700 is a glycerine based polyoxpropylene triol and is designed for production of rigid polyurethane foams and other polyurethane products. Contains BHT free antioxidants package.

### Typical properties

| Property                                    | Unit              | Value                     |
|---|-------------------|---------------------------|
| Appearance at 25°C                          | –                 | homogeneous, clear liquid |
| Hydroxyl value                              | mg KOH/g          | 225 ÷ 250                 |
| Water content                               | %                 | max. 0.1                  |
| Viscosity at 25°C                           | mPas              | 220 ÷ 270                 |
| Density at 25°C                             | g/cm <sup>3</sup> | ~ 1,03                    |
| Molecular weight                            | g/mol             | ~ 700                     |
| Flash point                                 | °C                | > 200                     |
| Colour in Hazen scale                       | –                 | max. 50                   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 5                    |
| Acidity                                     | mg KOH/g          | max. 0.1                  |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® G700.



## ROKOPOL® RF4855

Rokopol® RF4855 is a general purpose sorbitol based polyether polyol recommended for the production of rigid foams. It is generally used as the base component of blends of other polyols, such as triols and more reactive polyols in order to obtain an optimum balance between viscosity, functionality and reactivity. It produces foams with excellent flow properties, good structure, dimensional stability and good mechanical properties.

### Typical properties

| Property                                    | Unit              | Value                                   |
|---|-------------------|---|
| Appearance                                  | –                 | clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 440 - 460                               |
| Water content                               | %                 | max. 0.1                                |
| Viscosity at 25°C                           | mPas              | 7500 - 9500                             |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.13                                   |
| Molecular weight                            | g/mole            | ~600                                    |
| Flash point                                 | °C                | >190                                    |
| Colour in Hazen scale                       | –                 | max. 300                                |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 50                                 |
| Acidity                                     | mg KOH/g          | max. 0.1                                |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® RF4855.



## ROKOPOL® RF551

Rokopol® RF551 is a general purpose sorbitol based polyether polyol recommended for the production of rigid polyurethane foams. Rokopol® RF551 features low viscosity, medium functionality and low reactivity and forms foams with excellent flow properties and good mechanical properties.

### Typical properties

| Property                                    | Unit              | Value  |
|---|-------------------|--|
| Appearance                                  | –                 | colourless or light yellow clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 400 - 440  |
| Water content                               | %                 | max. 0.1   |
| Viscosity at 25°C                           | mPas              | 3000 - 5000  |
| Density (at 25°C)                           | g/cm <sup>3</sup> | ~1.09  |
| Molecular weight                            | g/mole            | ~800   |
| Flash point                                 | °C                | >200   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 100   |
| Acidity                                     | mg KOH/g          | max. 0.1   |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® RF551.



## ROKOPOL® RF55

Rokopol® RF55 is a sorbitol based polyether polyol utilised as the main polyol component in rigid polyurethane foams.

### Typical properties

| Property                                    | Unit              | Value  |
|---|-------------------|--|
| Appearance at 25°C                          | –                 | colourless or light yellow clear liquid free from suspended matter |
| Hydroxyl value                              | mg KOH/g          | 475 - 515  |
| Water content                               | %                 | max. 0.1   |
| Viscosity at 25°C                           | mPa s             | ~9200  |
| Density at 25°C                             | g/cm <sup>3</sup> | ~1.09  |
| Molecular weight                            | g/mole            | ~550   |
| Flash point                                 | °C                | >219   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max 100  |
| Acidity                                     | mg KOH/g          | max. 0.1   |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packaging available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® RF55.



## ROKOPOL® V700

Rokopol® V700 is a glycerin based polyoxyalkylene triol and is designed for the production of viscoelastic polyurethane foams. Contains BHT free antioxidants package.

### Typical properties

| Property                                    | Unit              | Value                     |
|---|-------------------|---------------------------|
| Appearance at 25°C                          | –                 | homogeneous, clear liquid |
| Hydroxyl value                              | mg KOH/g          | 225 ÷ 250                 |
| Water content                               | %                 | max. 0.1                  |
| Viscosity at 25°C                           | mPas              | 220 ÷ 270                 |
| Density at 25°C                             | g/cm <sup>3</sup> | ~ 1,02                    |
| Molecular weight                            | g/mol             | ~ 700                     |
| Flash point                                 | °C                | > 200                     |
| Colour in Hazen scale                       | –                 | max. 50                   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 10                   |
| Acidity                                     | mg KOH/g          | max. 0.1                  |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® V700.



## ROKOPOL® V800

Rokopol® V800 is a glycerin based polyoxyalkylenetriol and is designed for the production of viscoelastic polyurethane foams. Contains BHT free antioxidants package.

### Typical properties

| Property                                    | Unit              | Value                     |
|---|-------------------|---------------------------|
| Appearance at 25°C                          | –                 | homogeneous, clear liquid |
| Hydroxyl value                              | mg KOH/g          | 160 ÷ 180                 |
| Water content                               | %                 | max. 0.1                  |
| Viscosity at 25°C                           | mPas              | 250 ÷ 350                 |
| Density at 25°C                             | g/cm <sup>3</sup> | ~ 1,02                    |
| Molecular weight                            | g/mol             | ~ 1200                    |
| Flash point                                 | °C                | > 200                     |
| Colour in Hazen scale                       | –                 | max. 50                   |
| Content of Na <sup>+</sup> + K <sup>+</sup> | mg/l              | max. 10                   |
| Acidity                                     | mg KOH/g          | max. 0.1                  |

### Guaranteed Period of stability:

Guaranteed period of stability is 6 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® V800.



## ROKOPOL® iPOL

Rokopol® iPOL is a suspension of polymeric material in a reactive polyether polyol. Rokopol® iPOL is a specialty polyol to be used for the production of high quality HR foams. It can also be used in CMHR slabstock foam, where it has the advantage to require relatively low levels of FR additives. Contains BHT free antioxidants package.

### Typical properties

| Property           | Unit              | Value                    |
|--------------------|-------------------|--------------------------|
| Appearance at 25°C | –                 | homogeneous white liquid |
| Hydroxyl value     | mg KOH/g          | 47 ÷ 54                  |
| Water content      | %                 | max. 0.1                 |
| Viscosity at 25°C  | mPas              | 2500 ÷ 5000              |
| Density at 25°C    | g/cm <sup>3</sup> | ~ 1,05                   |
| Molecular weight   | g/mol             | ~ 4850 (base polyol)     |
| Flash point        | °C                | > 200                    |
| Solid content      | % (m/m)           | ~ 10                     |
| Acidity            | mg KOH/g          | max. 0.1                 |

### Guaranteed Period of stability:

Guaranteed period of stability is 3 months from date of manufacture. After expiry of this period, the product can be used upon verifying the conformity the technical parameters.

### Packing, storage and transport:

Store in tightly closed containers. Keep away from humidity and do not expose to strong sunlight. Polyols should be stored at temperatures below 40°C. Viscosity increases as temperature decreases. PCC Rokita provides transport in tank wagons or tank trucks made of stainless steel, plastic containers with a capacity of 1m<sup>3</sup>, steel or plastic drums with a capacity of 200 dm<sup>3</sup>. Other packing available on request.

Limitations resulting from ADR, RID, IATA and IMDG regulations do not apply to transport of Rokopol® iPOL.



# POLYOLS BUSINESS UNIT

## POLYOLS FOR FLEXIBLE FOAM

|  |                             |                      |                      |                      |
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## POLYOLS FOR RIGID FOAM AND CASE APPLICATIONS

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## POLYOLS BUSINESS UNIT

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