

# TECHNICAL DATA SHEET

## **JOKISCH MIGMA RINO PGG** (Jokisch Press water additive F)

**Antifreeze and corrosion protection. Areas of application: Heat pumps, geothermal probes, air-conditioning systems, heat and cooling systems**

**Characteristics: According to VDI Guideline 2035.**

### APPLICATION

Suitable as antifreeze and corrosion protection medium according to VDI guideline 2035. Applicable in all technical fields, e.g. heat pumps, geothermal heaters, air conditioning systems, heat recovery systems, heating and cooling systems. Prior to initial filling, all components must be thoroughly cleaned. In plants where steel is used, rinsing is essential to remove rust. A suitable filter should be installed in each brine system. A mesh width of 50-80 µm is recommended.

### CHARACTERISTICS

Yellow, odorless liquid based on monoethylene glycol for use as a heat transfer medium with highly effective corrosion protection additives and hardening stabilizers. The inhibitor system protects all commonly used metallic materials from corrosion and deposits. Even the use of galvanized components is possible. Although the zinc layer is peeled off over a long period of time, it does not in any way affect the effect of the medium since newly developed additives prevent flocculation and deposition.

### PROPOSED CONCENTRATION

Miscible with water in all proportions. A concentration of 20% by volume should not be exceeded since the corrosion protection is no longer guaranteed. Should only be diluted to a hardness of 20° dH. Use deionized water for best results.

Heat pumps and geothermal probes	25 – 35 Vol.%
Air-conditioning systems and heat recovery systems	35 – 40 Vol.%
For pure frost protection	35 – 40 Vol.%

### STORAGE

Storage temperature:	5 – 40°C
Storage time:	12 months

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### TECHNICAL SPECIFICATIONS

	UNIT	METHOD	JOKISCH MIGMA RINO PGG
Dynamic viscosity	mPA*s	-	24
Density at 20°C	g/cm <sup>3</sup>	-	1,15
Boiling point	°C	-	170
Setting point	°C	-	-70
pH value at 20°C	-	-	8 - 10
Refractometerindex	-	-	2
Specific heat	kJ/kg	-	2,3
Thermal conductivity	W/m	-	0,29

This information is based on the latest state of knowledge. They are intended to describe the product and thus do not have the meaning to assure certain properties. A liability can not be derived from this.

### DILUTION CHART

FROST-RESISTANT °C	VOL. %	DENSITY g/cm <sup>3</sup>	REFRACTION INDEX
- 8	20	1,027	1,355
- 10	23	1,032	1,358
- 15	29	1,042	1,365
- 20	34	1,051	1,371
- 25	39	1,058	1,376
- 30	44	1,065	1,381
- 40	52	1,077	1,390
- 50	58	1,087	1,396

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### RESISTANCE OF PLASTICS

NAME	ABBREVIATION	LIMIT
Are resistant to Jokisch <b>Migma Rino PGG</b>		° C
Acrylonitrile-butadiene-styrene	ABS	-
Polyethylene	PE	-
Polypropylene	PP	-
Polytetrafluoroethylene	PTFE	-
Polyvenyl chloride	PVC	-
Butyl rubber	IIR	-
Ethylene-propylene-diene rubber	EPDM	-
Polychlorobutadien rubber	CR	-
Cross-linked polyethylene	VPE	-
Centellen NP	-	-
Styrene-butadiene rubber	SBR	100
Fluorocarbon elastomers	FPM	-
Nitrile rubber	NBR	-
Polyacetal	POM	-
Polyamide	PA	-
Polyester resins	UP	-
Polybutene	PB	-
Natural rubber	NR	80
Hemp	-	-

### CORROSION AND DISTRIBUTION RATES

MATERIAL	GLYCOSOL *	GLYCOL-WATER
	35 % Vol	35% vol without inhibitors
Copper	-0,04	-2,8
Silver solder	-0,11	n.g.
Brass	-0,06	-7,6
Red brass	-0,04	n.g.
Stainless steel	-0,04	n.g.
Steel	-0,10	-152
Cast iron	-0,04	-273
Aluminium	-0,25	n.g.

\* Measured by Institut für Kälte- und Klimatechnik GmbH, Dresden

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