

# Klübersynth MZ 4-17

Lubricating and corrosion protection oil with good low-temperature properties



## Your benefits at a glance

- No residue formation or gumming due to fully synthetic product formulation
- Higher machine availability and less maintenance as the product supports smooth running at low temperatures, due to the good wear protection and due to good corrosion protection even when exposed to salt water
- Safe application as the product is free from solvents

## Your requirements - our solution

Klübersynth MZ 4-17 is a fully synthetic lubricating and corrosion protection oil with good low-temperature properties. Apart from protecting against corrosion even when exposed to salt water, Klübersynth MZ 4-17 shows good antiwear properties.

## Application

Klübersynth MZ 4-17 has been designed for the preservation of rolling bearings prior to lubrication with synthetic lubricants. Furthermore, this product can be used as a corrosion protective agent on machines, installations and components in cold storage houses, aviation and navigation. This low-viscous, fully-synthetic oil improves smooth running of components and machine elements especially at low temperatures down to -50 °C. Klübersynth MZ 4-17 has proven successful for the corrosion protection of tools, hunting and sporting weapons. Due to its good antiwear properties it can also be used as a lubricating oil. Klübersynth MZ 4-17 can also

be used for the lubrication of longitudinal cutters in cardboard manufacture. Klübersynth MZ 4-17 provides excellent separating properties, low consumption due to high thermal stability, and a long service life owing to the good antiwear properties. Klübersynth MZ 4-17 can also be used for the cleaning of corrugated rolls as it offers a good dissolving effect without forming residues.

## Application notes

Klübersynth MZ 4-17 is applied by drip-feed lubrication, automatic lubrication systems, oil feeder or by brush. It is also available as spray.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klübersynth MZ 4-17	Klübersynth MZ 4-17 Spray
Aerosol can 400 ml		+
Canister 1 l	+	
Canister 20 l	+	
Drum 200 l	+	

## Hint

Except for the article number and the minimum shelf life, the spray data below refer to the solvent-free spray agent.

Characteristics	Klübersynth MZ 4-17	Klübersynth MZ 4-17 Spray
Article number	047122	081258

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Characteristics	Klübersynth MZ 4-17	Klübersynth MZ 4-17 Spray
Composition, type of oil	ester oil , synthetic hydrocarbon oil	ester oil , synthetic hydrocarbon oil
Appearance	clear - slightly turbid	clear - slightly turbid
Colour space	brown	brown
Service temperature, lower limit	-50 °C	-50 °C
Service temperature, upper limit	150 °C	150 °C
Density, DIN 51757, 20°C	approx. 0.86 g/cm <sup>3</sup>	0.86 g/cm <sup>3</sup>
Flash point, DIN EN ISO 2592, Cleveland open cup	≥ 160 °C	≥ 160 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, -40°C	≤ 5000 mm <sup>2</sup> /s	≤ 5000 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C, lower limit	18 mm <sup>2</sup> /s	18 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C, upper limit	22 mm <sup>2</sup> /s	22 mm <sup>2</sup> /s
Salt spray test, FTMS 791C-4001.3@DIN 51358, 5 % NaCl solution, 72 h	≤ 1 corrosion degree	≤ 1 corrosion degree
Pour point, DIN ISO 3016	approx. -57 °C	≤ -57 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	36 months

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

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