



METAL WORKING OILS

ADDINOL PENTA-COOL NM 80 MIN

PRODUCT DESCRIPTION

ADDINOL Penta-Cool NM 80 MIN is a mineral oil-free coolant based on synthetic polyol esters as well as sulphurous and phosphoric EP-additives.

APPLICATION

- Preferred use as lubricating oil for minimum quantity lubrication
- Excellent suitability for the processing of alloyed and unalloyed steel
- Limited suitability for the processing of aluminium (check proneness to staining before use)
- Universal application for cutting and non-cutting processes as well as for forming
- Easy application by spraying, brushing or flooding
- Not suitable for the processing of non-ferrous metals

DELIVERY

Delivery preferable in 20L cans.

APPLICATION CONCENTRATION

Undiluted application.

STORAGE TEMPERATURE

+5°C to +45°C.

CHARACTERISTICS

- EP-additives
- Special chemical structure
- Water-insoluble
- Prevents the formation of built-up edges

ADVANTAGES AND BENEFITS

- Usable for high loads
- High surface quality
- Reduced tool wear
- Efficiently inhibits the formation of built-up edges on tools
- Undiluted application
- Optimum use of the tool service life





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / Unit		Penta-Cool NM 80 MIN	Method acc. to
Colour			light brown, clear liquid	visual
Application concentration			undiluted	
Density	at 15°C	kg / m ³	942	DIN 51757
Viscosity	at 40°C	mm ² /s	80	ASTM D 7042
Viscosity index			185	DIN ISO 2909
Flash point	COC	°C	310	DIN EN ISO 2592
Pour point		°C	< -40	DIN EN ISO 2160
Copper corrosion	3h at 100°C	corr. Level	4	DIN EN ISO 2160

ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.