



WATER MISCIBLE COOLANTS

ADDINOL PENTA-COOL WM 910

PRODUCT DESCRIPTION

ADDINOL Penta-Cool WM 910 is a coolant concentrate of high technical stability for universal operations. The product is free of boron and formaldehyde-releasing components.

APPLICATION

- Suited for processing:
 - iron and steel
 - alloyed steels
 - cast material
 - copper and aluminium (check proneness to staining before use)
- Not suited for processing magnesium alloys.

PLEASE NOTE

When mixing, add concentrate under constant agitation to the water, never vice versa! Minimum temperature for processing > +5°C.

TYPE

- Emulsion
- Mineral oil content ~ 45%

DELIVERY

Delivery preferable in drums and 20L cans.

OPERATION CONCENTRATION

Depending on application:

- > 6%

SHELF LIFE AND TRANSPORT OF CONCENTRATE

Storable at room temperature in closed original package up to 12 months after date of production. Frost-protected transport!

CHARACTERISTICS

- Free of boric acid
- Outstanding corrosion protection
- Fine-disperse emulsion
- Low in foam
- Selected additives
- Free of formaldehyde-releasing components

ADVANTAGES AND BENEFITS

- No sticky or crystalline residues
- Temporary storage of workpieces possible
- Excellent cooling and lubricating effect
- No foaming when using soft water and under high pump pressure
- Technically stable performance over long intervals
- No health hazard





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		Penta-Cool WM 910	Method acc.to
Appearance, colour			clear, yellowish liquid	visual
Storage temperature		°C	from +5 up to 40	
Density	at 15°C	kg / m ³	952	DIN EN ISO 12185
Viscosity	at 20°C	mm ² /s	220	DIN EN ISO 3104
Mineral oil content		%	~ 45	
Refractive index		% pro °Brix	1.0	

Fresh emulsion with water

Recommended concentration		> 6%	
pH-value in DIN 20 water	6 % emulsion	9.9	DIN 51369
Corrosion protection	6 % emulsion	0/0	DIN 51360-2
Stability in hard water	Mixing water	between 10°dH and 30°dH	
	in operation	stable up to 60°dH	

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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 70 international partners.

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