

**Motorenöle**

*Motor oils*

**Getriebeöle**

*Gear oils*

**Zweitaktöle und  
Traktorenöle**

*Two-stroke oils and  
tractor oils*

**Hydrauliköle**

*Hydraulic oils*

**Industrie- und  
Spezialschmierstoffe**

*Industrial and  
specialty lubricants*

## PENNASOL INDUSTRIAL GEAR OIL CLP

PENNASOL INDUSTRIAL GEAR OIL CLP is based on paraffinic base oil and modern additive technology. Effective zinc and ash free components guarantee optimal lubrication and long term protection against oxidation. It is used to lubricate spur-, bevel- and worm gears, gear trains and bearings with dip and circulator lubrication, jaw clutches axial bearings of roller mill stands and highly loaded sliding surfaces (joints). The oil performs very well in gears and bearings of rolling mill stands, on calenders, mining machinery, winches and crushing mills.

### Specification:

- DIN 51517 part 3
- FZG-Test A8,3/90 load stage: >12
- FE8 wear test (DIN 51819-3): bearing wear 1,1mg; cage wear 127mg

### Recommendations:

AIST 224 (US Steel)	AGMA 9005 E02 (EP)
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Parameter	Unit	Testing method	PENNASOL INDUSTRIAL GEAR OIL CLP		
			ISO VG 68	ISO VG 100	ISO VG 150
Density 15°C	kg/m <sup>3</sup>	DIN EN ISO 12185	872	879	885
Flash point COC	°C	DIN ISO 2592	230	240	240
Pour point	°C	DIN ISO 3016	-27	-24	-24
Viscosity 40°C	mm <sup>2</sup> /s	DIN 51562-1	66,7	92,6	150,7
Viscosity 100°C	mm <sup>2</sup> /s	DIN 51562-1	9,0	11,5	15,1
VI		DIN ISO 2909	109	102	101

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1

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