Product Data

Magna PM 220

Paper machine oil

Description

Castrol Magna™ PM 220 (previously called Cresta™ PM 220) is a mineral oil based lubricant for use in the circulatory systems of paper machines. Specially selected base oils and additive package provide the product with the required resistance against ageing.

Application

The dry sections of paper machines require a high thermal and oxidative stability in the lubricant used to lubricate the rolling bearings of the driers. Magna PM 220 has this stability. The degree of wear protection it provides also makes it a good gear lubricant. It has a good water demulsification capability, protects against corrosion (even in the presence of water) and is compatible with the majority of yellow metals as well as seal materials. Magna PM 220 meets the SKF specification for use as a lubricant for the circulatory systems of the dry sections of paper machine.

Advantages

- High thermal and oxidative stability, yielding long working life
- Low deposit forming tendency in paper machine drier rolling bearings.
- Good protection of gears and bearings against wear and corrosion.
- Enabling joint lubrication of bearings and gears in paper machine dry sections.

Typical Characteristics

Name	Method	Units	Magna PM 220
Density @ 15°C / 59°F	ASTM D4052 / ISO 12185	kg/m³	891
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	280 / 536
Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm²/s	228
Pour Point	ASTM D97 / ISO 3016	°C/°F	-18 / -0
Acid Number	ASTM D974 / ISO 6618	mgKOH/g	0.5
Copper corrosion (3 hrs@120°C/250°F)	ASTM D130 / ISO 2160	Rating	1
Copper corrosion (48 hrs@120°C/250°F)	ASTM D130 / ISO 2160	Rating	1-2
Rust Test - EMCOR (distilled water)	ASTM D6138 / ISO 11007	Rating	0
Air Release @ 50°C / 122°F	ASTM D3427 / ISO 9120	min	22
Water Separation @ 82°C / 180°F (40/37/3)	ASTM D1401 / ISO 6614	min	10
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	12
Four Ball Wear test - Wear Scar Diameter (600N / 1 hr)	DIN 51350-3B	min	0.49
Rolling Element Corrosion test @ 120°C 2 weeks	SKF test	Index	1
Rolling Element Corrosion test @ 120°C 4 weeks	SKF test	Index	1
Rolling Element Corrosion test @ 120°C 6 weeks	SKF test	Index	1-2
Rolling Element Corrosion test @ 120°C 8 weeks	SKF test	Index	1-2
Oil Film Ageing	SKF test	% wt loss	0.76

Subject to usual manufacturing tolerances.

This product was previously called Cresta PM 220. The name was changed in 2015.

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