

Castrol Hyspin SA 46

Non-Staining Hydraulic Oil

Description

Non-staining hydraulic oil for aluminium rolling mills.

Application

Hyspin SA 46 is an industrial lubricant designed for use in hydraulic systems of the non-ferrous rolling industry, especially aluminium rolling. When leakages occur, lubricating oils may come into contact with rolled metal and lead to metal staining and, in some instances, the metal sheets may stick together. To solve these problems, in addition to excellent lubricity properties, Hyspin SA 46 exhibits non-staining and non-sticking properties.

The Hyspin SA 46 formulation is fully synthetic in order to achieve high shear stability and non-staining tendency. It has good air release and demulsibility properties. Where contamination of the rolling oil occurs with leaking fluid, the use of Hyspin SA 46 is recommended. It will also protect the system from wear, corrosion and deposit formation and can be used in low-, medium- and high-pressure hydraulic systems and servo-hydraulic systems.

Advantages

- Zinc free formulation eliminates staining problems in the annealing process which are caused by contamination of the rolling oil
- Very good protection against wear, corrosion and deposits
- No staining or corrosion of the roll mill equipment
- Extended charge life of the lubricating and rolling oils and reduced lubricant costs
- Reduced maintenance and fewer stoppages

Typical Characteristics

	Test Method	Unit	Value
Kinematic Viscosity @ 40°C	ASTM D445	cSt	44
Kinematic Viscosity @ 100°C	ASTM D445	cSt	5.1
Density @ 15°C	ASTM D1298	kg/l	0.873
Flash Point (COC)	ASTM D92	°C	192
Pour Point	ASTM D97	°C	-36
FZG Failure Load Stage(A/8.3/90)	DIN 51354		11
Demulsification 54°C, mins to 40/37/3	ASTM D1401	mins	101
Colour	ASTM D1500		0.5

User Advice

Hyspin SA 46 is recommended for the lubrication of all types of cold rolling mills and particularly aluminium rolling mills:

Hyspin SA 46 is suitable for use in hydraulic systems up to 250 bar

Hyspin SA 46 exhibits extreme-pressure and anti-wear properties. Performance in FZG tests is comparable with that of HLP quality hydraulic oils. Recommended for non-ferrous (aluminium, copper and brass alloys) and conventional and stainless steel rolling.

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Castrol Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, UK
www.castrol.com/industrial