

Accurately together...



PETRAL S

Description

PETRAL S has a pure and linear paraffinic based structure complying with the purity standards of the U.S. Food and Drug Administration (FDA 178 3620 b). Its very low sulfur content, low toxicity and odor make it an excellent choice for the lubrication of cold rolling mills of aluminum and aluminum alloy sheet and foil.

Properties Advantages

- Adequate viscosity to assure proper lubricity at roll bite.
- High flash point (high initial boiling point) to lower the risk of fire.
- Low final boiling point.
- Excellent thermal and oxidation stability to avoid filter clogging
- High rolling speeds can be performed specially at the last passes in all types of mills.
- Stain free surface after annealing, even at low temperatures.
- Long shelf life.
- Proper viscosity for thin foil production.
- Free of unsaturated hydrocarbons which are susceptible to oxidation.
- Environmentally friendly.
- Long trouble-free service life.
- Excellent solubility of lubricity additives and packages.
- Very good heat transfer ability.
- Enhanced corrosion protection.
- Very good filterability.

Important note: To further increase the reduction capacity and affinity to the aluminum surface in order to minimize surface cracks and film breakages the use of lubricity additives is strongly recommended. Fatty alcohol, ester and acid based packages increase the load bearing capacity of Petral S by decreasing the coefficient of friction at the area of roll bite. Also roll pick-up is kept to desired levels. Adding antioxidant is also recommended to increase the thermal stability and to reduce the ageing of the rolling fluid as such.

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LUBRICANTS

Technical Properties

Property	Test Method	Typical Value
Appearance	ASTM 4176-1	Clear
Odor	Sensitive	Typical
Color, Saybolt	ASTM D156	> +30
Density at 15 °C , g/cm ³	ASTM D1298	0,772
Viscosity at 40 °C, mm ² /s	ASTM D445	2.04
Pour Point, °C	ASTM D97	3
Flash Point, PMCC, °C	ASTM D93	109
Distillation Range at 1.013 bar	ASTM D86	
I.B.P (°C)	-	231
F.B.P (°C)	-	246
Aromatics (Absorbance at 270 nm)	ASTM D 2140	2
Sulfur, ppm	ASTM D 2622	< 1
Bromine Index, mg Br ₂ /100 g	ASTM D 1491	10
Aniline Point, °C	ASTM D 611	86

** The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modification is reserved.*

Health & Safety

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet.

Packaging

165 kg drum, 800 kg IBC.

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