



Accurately together...



petroyağ
LUBRICANTS

PETRAL F

Description

PETRAL F 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 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.
- Specially recommended 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 F 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.

Accurately together...

petroyağ
LUBRICANTS

Technical Properties

Property	Test Method	Typical Value
Appearance at 15 °C		Clear liquid
Odor		None
Color Saybolt	ASTM D 156	> +30
Density at 15 oC (kg/l)	ASTM D 1298	0.764
Kinematic Viscosity at 20°C, mm ² /s	ASTM D 445	2.74
Kinematic Viscosity at 40°C, mm ² /s	ASTM D 445	1.870
Pour Point (°C)	ASTM D 97	-3
Flash Point, PMCC (°C)	ASTM D 93	96
Distillation Range at 1.013 bar	ASTM D 86	
I.B.P (°C)		228
F.B.P (°C)		245
Total n-Paraffin's (%Mass)	ASTM D 2502	99
Aromatics (%Mass)	ASTM D 2140	NA
Sulphur (ppm)	ASTM D 2622	< 1
Bromine Index (mg Br ₂ /100 g)	ASTM D 1491	15
Aniline Point (°C)	ASTM D 611	89

** 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

161 kg drum, 800 kg IBC.

*Revision Date/No:14.08.2012/03