

SmoothForm 9000 WD

Cold Forming Neat Oil

Description:

- **SmoothForm 9000 WD** is a highly sulphurised, medium viscosity oil used for cold forming or bolt heading operations. The high content of active sulphur enables the formation of a high strength film at the point of contact of the metal surface and the die. The film reduces friction and withstands high temperatures of up to 1000°C. This protects the die from wear and provides excellent surface finish.

Applications :

SmoothForm 9000 WD is used typically for drawing alloy steel bars where high EP properties are desired. It is also suitable for SS wire drawing because of the versatility of its EP characteristics. It is recommended to be used in neat form and not recommended for use with copper or cuprous metals.

Sr	Product Features	Operational Benefits	Customer Benefits
1	Enhanced EP Properties	Extended die protection	Good die life
2	Better Temperature Stability	Longer life of oil	Reduced cost and economy of use

N.B.: The product has been formulated to give excellent surface finish and lower rejection rates at customer's plant.

Characteristics	Test Method	Unit	Specifications
Appearance	Visual	-	Clear
Colour	Visual	-	Amber
Density @ 29.5°C	*CTM	°C	0.95
Flash Point (COC)	ASTM D-92	°C	+250
Viscosity @ 40°C	ASTM D-445	cSt	50±5
Copper Strip Corrosion @ 100°C	ASTM D-130	Rating	4a
Four Ball Weld Load	ASTM D-2596	kgs	800

*CTM=Corporate Test Method

The above are typical figures and do not constitute a specification.
For information about health and safety precautions please refer to the material safety data sheet.

MSDS available on request.
Due to continual upgradation of products above data is subject to change without notice.
This supersedes our previously issued data sheets.

[REV.1 /01.01.14]

Information and data given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of a product for a particular use is beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE.

CONTROLLED COPY