

TECHNICAL DATA SHEET

CAL-CUT SI 4132

Ester Based Neat Oil for Heavy Duty Applications

DESCRIPTION

CAL-CUT SI 4132 is an advanced technology neat cutting fluid free of mineral oil, chlorine, zinc, sulphur and heavy metals.

CAL-CUT SI 4132 is having superior corrosion protection and lubricity which makes it suitable for use on heavy duty applications.

APPLICATION

CAL-CUT SI 4132 offers improved performance on ferrous and non-ferrous materials like through hardened steel, titanium alloys, aluminium alloys, copper alloys.

CAL-CUT SI 4132 is suitable for gear cutting operations like milling, hobbing, broaching, shaping, turning, milling, threading etc.

CAL-CUT SI 4132 is also can be used for minimal quantity lubrication applications.

SPECIAL FEATURES

- Mineral oil, Chlorine, Sulphur, Zinc and heavy metals free makes the product operator and environmental friendly
- Superior lubricity ensures enhanced tool life and excellent surface quality.
- High flash point, No smoke or mist, clean workplace
- High removal rate increases the productivity
- Suitable for ferrous and non-ferrous metals - advantage for inventory management.

HEALTH AND SAFETY

For proper handling and storage, please refer SDS, and share the information to user. For any other information, please contact Callington representative.

The product is available in 200 Liters-Drum and 20 Liters-Pails

TYPICAL DATA

PARAMETERS	METHOD	TYPICAL VALUES
Appearance	Visual	Clear, yellow to amber fluid
Density @ 30 °C, g/cm ³	ASTM D 4052	0.910
K. Viscosity @ 40 °C, cSt	ASTM D 445	32.00
Flash Point, COC, °C	ASTM D 92	> 300
Copper Corrosion, [3h, 100 °C]	ASTM D 130	1b

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CALLINGTON PRODUCTS

Callington's **SYN** and **CAL-COOL ES** series are proven product for use in all metalworking applications.

Apart from above, Callington is having below product range:

Cal-Cut series of neat cutting oils available for all neat oil applications.

CalGuard DW and DWP series of Rust Preventives suitable for protection up-to 12 months

Pro-Clean series of cleaners suitable for removing different soils from components and meet the Millipore requirement

Evap-Lube series of stamping oils

Eco-Tap Spray for drilling, tapping, cutting

COOLANT MANAGEMENT

- Neat oils are relatively maintenance free fluids when compared with water miscible fluids
- However neat oils shall be filtered on regular basis, depending on chips accumulation, to remove metal fines
- The metal fines may react with cutting fluids and act as catalyst for oxidation
- The presence of metal fines in cutting fluid may also cause surface finish issues
- It is always recommended to avoid mixing of lube oils / hydraulic oils in the cutting fluid, as the contamination may deteriorate the performance of cutting fluid.

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