



STRIBECK ADDICHEM

PRODUCT DATASHEET

STRILUBE® 2131 BF

SEMI-SYNTHETIC EMULSIFIER PACKAGE FOR MULTIMETALS

Strilube® 2131 BF is an advanced semi-synthetic emulsifier package crafted to deliver unparalleled performance across diverse multimetal applications. Designed for both moderate and heavy-duty machining and grinding, it strikes the perfect balance between efficiency and cost-effectiveness. Engineered to excel with cast iron, ferrous metals, alloys, aluminum, copper, and brass. Strilube® 2131 BF guarantees smooth, reliable, and high-precision operations. Strilube® 2131 BF offers the **boron & secondary amines free** formulations. Elevate your industrial processes with this cutting-edge solution, setting a benchmark for superior performance and dependability.

Key features:

- 🌊 Superior hard water stability for consistent performance in challenging water conditions
- 🌊 Excellent multimetals corrosion inhibition.
- 🌊 Excellent emulsification of base oils
- 🌊 Good defoaming properties.
- 🌊 Good tramp oil rejection.
- 🌊 Improves surface finish & extends tool life.
- 🌊 Free from boron & secondary amines.

Physio-chemical properties

Tests	Test Method	Results
Appearance	Visual	Clear liquid
Colour	Visual	Amber
Density at 29.5°C	ASTM D-1298	1 g/ml
Viscosity @40°C	ASTM D-445	230-250 cSt
Acid number	ASTMD-664	50-60 mg KOH/g

Applications:

Strilube®2131 BF is a high-quality solution for diverse selection of water-based metalworking fluids renowned for their superior corrosion inhibition properties.

Strilube® 2131 BF can be employed in various metal operations including grinding, milling, cutting, drilling, bending forming etc because of its excellent performance.

Some guidelines & their performance data with Strilube® 2131 BF.

PARAFFINIC MID OIL 35% WITH STRILUBE 2131 BF:

1	SN 150	35
2	STRILUBE 2131 BF	35
3	DM WATER (FINISHED)	29.34
4	LAURYL ALCOHOL	0.7
5	FOAM BAN 970 (SFG)	0.06
	Total	100

Performance Data for above formulation:

<i>PARAMETERS</i>	<i>RESULTS</i>
Appearance <i>Visual</i>	Clear Amber fluid
Stability at 0°C, 50°C & Room temp. <i>Visual</i>	Stable

Testing Parameters of 5% emulsion:

Appearance	Translucent
Hard water stability	Stable up to 500 ppm
pH Value	9 to 10
Break Point % (IP287)	3%
RI Value	1.3
Foaming test (DM water)	20 secs.
Aluminium 5000 series corrosion test	Pass
Aluminium 6000 series corrosion test	Pass
Aluminium 7000 series corrosion test	Pass
Brass, Copper corrosion test	Pass

PARAFFINIC MID OIL 45% WITH STRILUBE 2131 BF:

1	SN 150	45
2	STRILUBE 2131 BF	35
3	DM WATER (FINISHED)	18.35
4	LAURYL ALCOHOL	1.6
5	FOAM BAN 970 (SFG)	0.03
	Total	100

Performance Data for above formulation:

<i>PARAMETERS</i>	<i>RESULTS</i>
Appearance <i>Visual</i>	Clear Amber fluid
Stability at 0°C, 50°C & Room temp. <i>Visual</i>	Stable

Testing Parameters of 5% emulsion:

Appearance	Milky White
Hard water stability	Stable up to 500 ppm
pH Value	9 to 10
Break Point % (IP287)	3%
RI Value	1.2
Foaming test (DM water)	30 secs.
Aluminium 5000 series corrosion test	Pass
Aluminium 6000 series corrosion test	Pass
Aluminium 7000 series corrosion test	Pass
Brass, Copper corrosion test	Pass

PARAFFINIC MID OIL 55% WITH STRILUBE 2131 BF:

1	SN 150	55.00
2	STRILUBE 2131 BF	35.00
3	DM WATER (FINISHED)	7.97
4	LAURYL ALCOHOL	2
5	FOAM BAN 970 (SFG)	0.03
	Total	100

Performance Data for above formulation:

<i>PARAMETERS</i>	<i>RESULTS</i>
Appearance <i>Visual</i>	Clear Amber fluid
Stability at 0°C, 50°C & Room temp. <i>Visual</i>	Stable

Testing Parameters of 5% emulsion:

Appearance	Milky-white
Hard water stability	Stable up to 800 ppm
pH Value	9 to 10
Break Point % (IP287)	3%
RI Value	1
Foaming test (DM water)	35 secs.
Aluminium 5000 series corrosion test	Pass
Aluminium 6000 series corrosion test	Pass
Aluminium 7000 series corrosion test	Pass
Brass,Copper corrosion test	Pass

Note: Performance data is summarized after several repetitive tests on the same formulation. Actual results may vary based on the test conditions and equipment used.

Packing: 200 Kg close head drum

Storage conditions: Store in a cool, dry place away from any direct source of heat and moisture. Maximum recommended storage temperature: 50°C

Solubility: Soluble in petroleum base stocks. Emulsifiable in water. However, it is recommended to verify the solubility in the base oils used and the compatibility with other additives.

Shelf life: Best if used within 12 months from the date of manufacture.

Manufactured by:

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Revision:02/31012025