



Spectrum Cutting Solutions Pvt Ltd

Product Data Sheet

“SCOL 8218”

Product Description:

“SCOL 8218” is a water-soluble cutting oil Emulsifier package, which base on surfactant, sulphonate Amide, Ester base chemistry.

“SCOL 8218” have inbuilt Biocide which take care of bacterial growth.

“SCOL 8218” have inbuilt Defoamer which take care of foaming properties.

“SCOL 8218” is high performance package which work with Group I & Group II mineral Base oil.

“SCOL 8218” covers Aniline point range from 95 °C to 115 °C.

Typical Properties:

1) Color	: Amber to Dark Brown.
2) Appearance	: Viscous Liquid.
3) Acid value	: Max 10. MgKOH/gm
4) Amine value	: Max 70. MgKOH/gm
5) PH 5% in Distilled water	: Min 9.5
6) Oil solubility 18 % in Group I & Group II	: Bright & clear
7) Thermal stability at 50 °C	: No separation

Key performance:

1. Excellent corrosion protection
2. Self-Emulsification
3. Biodegradable
4. Excellent Hard water stability
5. Cost Effective
6. Satisfies IS 1115 requirement
7. Good performance in Group I & Group II Mineral base oil.



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Guideline Formulations:

Raw material	Formulation 1	Formulation 2	Formulation 3	Formulation 4	Formulation 5
SCOL 8218	18%	18%	18%	18%	18%
SN 150 GrI	81%	-	-	-	-
SN 150 GrII	-	81%	-	-	-
SN 70 GrI	-	-	81%	-	-
SN 70 GrII	-	-	-	81%	-
Transformer oil	-	-	-	-	81%
Biocide (MBM)	1%	1%	1%	1%	1%
Total	100%	100%	100%	100%	100%

Result :

Properties	Formulation 1	Formulation 2	Formulation 3	Formulation 4	Formulation 5
Emulsion stability in ratio 20:1 & 5:1 At 400ppm Hard water (IS 1115 P:98)	Passes	Passes	Passes	Passes	Passes
Cast iron Test in ratio 20:1 At 400 ppm Hard water (IS 1115 Appendix A)	Passes	Passes	Passes	Passes	Passes
Frothing test in ration 20:1& 5:1 in 200 ppm Hard water(IS 1115 P:99)	Passes	Passes	Passes	Passes	Passes
Thermal stability at 50 °C(IS 1115 P:100)	Passes	Passes	Passes	Passes	Passes
Stability test at 4 °C	Passes	Passes	Passes	Passes	Passes

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Emulsion colour	Milky white	Milky white	Milky white	Milky white	Milky white
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Dosing :

18% to 20%

Storage condition:

Store inside warehouse, Temperature condition 10°C to 35°C

Avoid water collecting on barrel top,

Shelf life :

6 month Form Date of manufacturing.

Pack size :

50 kgs HDPE Carboy, 200kgs HDPE Drums

For Health & safety please refer MSDS

Guidance information is given as per our Knowledge.