

HIPER GA 102

Type EP & Antiwear Package to be used in Greases

Technical data**	Appearance	Clear Yellow Liquid
	Odour	Typical
	Specific Gravity@ 29.5 °C (ASTM D 7042)	0.98 TO 1.2 g/cc
	Viscosity, 40 °C, cSt (ASTM D 7042)	48 TO 65
	Cu.corrosion @ 120°C For 3 hrs. 0.75% in 500 N Grp II (ASTM D 130 M)	MAX.1b
	Four Ball Weld Load 1% in 500N Grp II, Kg. (ASTM D 2783)	MIN. 200
	Solubility 5% in 500N Grp II. (Internal)	Bright & Clear
	Sulphur, %	MIN. 25
	Phosphorus, %	MIN. 0.5

Application HIPER GA 102 is a specially designed as an EP and Antiwear Package to be used in Greases.

Hiper GA 102 is a very well balanced package which should exhibit excellent load bearing characteristics at a dosage of 1 to 1.5% w/w.

The product will also impart good copper corrosion properties to the grease particularly to Lithium complexes.

EVALUATION OF PROPERTIES OF ADDITIVE WITH EP GREASE

S. No.	Properties	Method	EP Grease with 1.0 % Hiper GA 102 Additive
1.	Appearance & Colour	Visual	yellow, smooth and buttery
2.	Penetration @ 25 C	ASTM D-217	
	Unworked Penetration		290
	Worked 60X Strokes		292
	Diff. in Penetration after 100000 strokes and 60X strokes		18
3.	Drop Point, C	ASTM D-566	197
4.	Weld Load, Kg	ASTM D-2596	200
5.	Copper Corrosion	ASTM D-4048	1b

EVALUATION OF THE ADDITIVE WITH LONG LIFE GREASE

	Properties	% of Additive Hiper GA 102		
		0.8 %	1.0 %	1.2 %
1.	Appearance & Colour	Yellow, smooth & homogeneous	Yellow, smooth & homogeneous	Yellow, smooth & homogeneous
2.	Weld Load, Kg	200	200	250
3.	Copper Corrosion	1b	-	3b

EVALUATION OF THE ADDITIVE WITH Li COMPLEX GREASE

	Properties	% of Additive Hiper GA 102		
		0.8 %	1.0 %	1.2 %
1.	Appearance & Colour	Yellow, smooth & homogeneous	Yellow, smooth & homogeneous	Yellow, smooth & homogeneous
2.	Weld Load, Kg	250	250	315
3.	Copper Corrosion	1b	-	>1b