

BOEDAL Ltd

Boester DEHT

Product Description

Di-2-ethylhexyl terephthalate

CAS no 6422-86-2

DEHT is used in emusifiable metalworking fluids as a cost effective alternative to mineral oils or 2-ethylhexyl oleate. It is easy to emulsify, with an excellent HS&E profile and readily biodegradable.

Sales Specifications

Properties	Units	Specifications	Typical values	Test Method
Appearance	-	Clear liquid	Clear Liquid	Visual
Colour	Hazen	20 max	-	
Ester content	%wt	99.0 min	-	GC
Water content	%wt	0.06 max	-	
DEHP content	% wt	0.1 max	-	
Density @ 20°C	g/ml	0.980 - 0.985	-	ASTM D1298
Acid Value	mgKOH/g	0.05 max	-	ASTM D974
Saponification value	mgKOH/g	-	280	
Refractive Index	n _{20D}	-	1.490	
Flash point COC	°C	-	218	ASTM D92
Pour point	°C	-	-69	ASTM D97
Viscosity 40°C	cSt	-	29.5	ASTM D445
Viscosity 100°C	cSt	-	4.5	ASTM D445
Viscosity Index	-	-	27	ASTM D445
Boiling Range Distribution				
IBP	°C	-	354	ASTM D2887
50%	°C	-	429	ASTM D2887
FBP	°C	-	432	ASTM D2887
Volatility 205°C / 6 hrs / wt lc	%wt	-	15.97	ASTM D972
Noack	%wt	-	12.90	CEC L-40-A
Conradson Carbon Residue	%wt	-	0.09	ASTM D189
Oxidation stability				
RPVOT	minutes		63	ASTM D2272
Dry TOST	hours		142	ASTM D943

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