

TECHNICAL DATA

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BRAD-CHEM 336

A specially formulated blend of thermally stable antioxidants for use as a general, versatile antioxidant for mineral oil and synthetic basestocks. Brad-Chem 336 imparts excellent antioxidant performance at very high temperatures, above 250°C.

Features / Benefits

- A specially formulated ashless blend of aminic and phenolic antioxidants
- Can be used in a range of mineral oils and synthetic lubricants
- Formulated to obtain superior antioxidant response in a wide range of basestocks
- Soluble in basestocks at typical treat rates
- Components approved by FDA for incidental food contact applications

Applications / Typical Treat Rates

Brad-Chem 336 is recommended for a wide range of industrial applications.

Mineral oil based R & O oils	0.3 - 0.6% w/w
Mineral oil based heat transfer oils	0.4 - 0.6% w/w
Quenchants	0.4 - 0.7 % w/w

Typical Properties

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Appearance	Clear amber /	nale	hrown	11/11/11/	1
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Specific Gravity. @ 20°C ca. 1.0

Viscosity @ 40°C (ASTM D7042) ca 1770

Solubility

BRAD-CHEM 336

Antioxidant Performance vs. Temperature in Synthetic Basestocks

Antioxidant Performance Brad-Chem 336 in Trimellitate Ester

	Volatility (wt loss %)		
Treat rate of Brad-Chem 336	5 hours at 200°C	4 hours at 220°C	2 hours at 250°C
0%	13.6%	20.2%	28.8%
1%	0.0%	1.4%	18.1%
2%	0.6%	1.6%	9.7%
4%	1.7%	2.3%	6.2%

Antioxidant Performance Brad-Chem 336 in Pentaerithritol Ester

	Volatility (wt loss %)			
Treat rate of Brad-Chem 336	5 hours at 200°C	4 hours at 220°C	2 hours at 250°C	
0%	14.4%	41.6%	50.0%	
1%	0.1%	15.9%	34.1%	
2%	0.4%	1.7%	14.9%	
4%	0.9%	2.8%	4.2%	

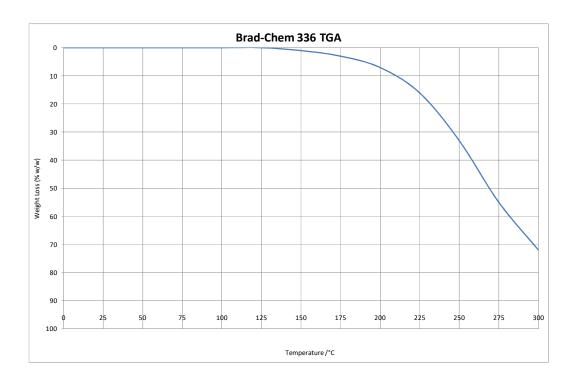
Oxidation Stability

0.5% Brad-Chem 336 in a mineral oil formulation gives a time of ca 7000 hours to TAN = 2.0 in the TOST Test (ASTM D 943) and a Sludge value of ca 90mg after 1000 hours.

0.5% Brad-Chem 336 in a mineral oil formulation gives an Induction period of ca 750 mins in the RBOT Test (ASTM D2272).



BRAD-CHEM 336



Pack Size

Available in 25 kg drums and 200 kg drums

The information contained within this publication is based upon the present state of our knowledge. Any recommendations or conclusions are made without liability on our part. Values shown are typical and should not be construed as specification limits.

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18/02.2020 336td.doc