

PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



DuraLife EAL

Environmentally Acceptable Lubricant Grease

DESCRIPTION:

DuraLife EAL is a premium, state-of-the-art, multipurpose calcium sulfonate complex grease thickening a blend of synthetic oils selected to provide the level of biodegradation required to meet the Norwegian “Yellow” and the combined UK and Netherlands “E” categories. These are the most safe environmental ratings for a lubricating grease. The non-plating, organic EP/anti-wear additives allow **DuraLife EAL** to be used where tolerances are low and/or speeds are high.

DuraLife EAL also contains polymer additives, further enhancing the inherent water resistance of a calcium complex-based grease. **DuraLife EAL** is extremely resistant to rust and corrosion and is ideally suited for use in high-moisture areas, including subsea applications.

- Operating Range from -10°F (-23°C) to 450°F (232°C)
- Superior rust and corrosion protection for maximum service life under harsh conditions
- Dropping Point 500°F (260°C)
- Polymer additives for extreme water resistance
- Biodegradable
- Color - Pale Red
- DuraLife EAL-2 exceeds Military specification MIL-G-18458B-SH

APPLICATIONS:

Specially formulated and developed for subsea or other conditions where extreme water resistance is necessary.

Highly developed additive package makes **DuraLife EAL** the premier, multipurpose grease for hostile environments.

Ideal for certain RISER, WASH PIPE, and other proprietary connection designs.

DuraLife EAL

PROPERTIES:

	Test Method	DLEAL-0	DLEAL-2
Color		Pale Red	Pale Red
Base Oil Type		Synthetic & Vegetable	Synthetic & Vegetable
Thickener Type		Calcium Complex	Calcium Complex
Additive Type		EP/AW, R&O	EP/AW, R&O
Physical Form		Sticky Grease	Sticky Grease
NLGI Grade	ASTM D4950	0	2
Dropping Point	ASTM D566	260 °C (500°F)	260 °C (500°F)
Cone Penetration @ 25 °C (77 °F)	ASTM D217		
Unworked		355 - 385 dmm	265 - 295 dmm
Density @ 25 °C	ASTM D1298	0.96 g/cm ³	0.96 g/cm ³
Density @77 °F	ASTM D1298	8.0 lbs/gallon	8.0 lbs/gallon
Flash Point	ASTM D92	221 °C (> 430 °F)	221 °C (> 430 °F)
Autoignition Temperature	CALCULATED	260 °C (> 500 °F)	260 °C (> 500 °F)
Copper Strip Corrosion	ASTM D4048	1A	1A
Oxidation Stability by OPV	ASTM D942	< 5.0 psi	< 5.0 psi
Water washout 1 hr 38 °C	ASTM D1264	-13.83 %	
Four-Ball Wear	ASTM D2266	0.7 mm	0.7 mm

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material. Freedom to use any patent owned by American Chemical Technologies' or others is not to be inferred from any statement contained herein.