

# PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



## DuraLife EAL

### *Environmentally Acceptable Lubricant Grease*

#### **DESCRIPTION:**

**DuraLife EAL** is the newest generation of environmentally friendly and responsible superior performance, heavy-duty grease; exhibiting outstanding film strength and outstanding water resistance even under corrosive saltwater environments due to its ability to absorb water without losing thickener consistency.

**DuraLife EAL** is the result of years of research and development to create the latest technology of an exclusive high performance over-based calcium sulfonate complex thickener, high viscosity base oils, and a selected combination of polymer additives. This formulation creates excellent mechanical stability and supreme long lasting adhesion to the metal surfaces, preventing wipe off, giving this product exceptional lubricity, high load carrying capability, optimal EP properties, thermal stability, rust protection, and excellent water washout resistance.

**DuraLife EAL** does not contain any of the following harmful additives: antimony, barium, chlorine, lead, copper, graphite, phosphorus, sulfur or zinc. This significantly reduces the risk of environmental contamination, making it an optimal choice for marine applications among many other very severe applications in mining, oil fields, loggings, etc. It is not biodegradable.

#### **KEY FEATURES:**

Calcium Sulfonate Complex base  
High Viscosity Base Oils  
Water Resistant and tacky  
Balanced Timken & Weld Load for a superior EP performance.  
Outstanding Mechanical Stability  
High Drop Point – Suitable for high temperature application  
Excellent rust protection properties  
Contains no Heavy Metals or other harmful additives  
**DuraLife EAL** grease does not float on water.

#### **CUSTOMER BENEFITS:**

Excellent performance under heavy loads  
Forms strong film on metal surface and protects equipment from rust and water  
Superior protection under both Shock loading and Running conditions  
Prevents grease breakdown even in presence of water  
Do not drip out under running conditions  
Extraordinary performance at high temperatures  
Protects equipment from rusting under wet and water ingress conditions.  
Environmentally responsible and helps protect water stream.

#### **APPLICATIONS:**

**DuraLife EAL** is highly recommended for marine, oil fields, mining, shipyards, drilling, ports, and water treatment applications but will perform virtually in all industrial applications, especially where high temperature and water ingress environment prevails concurrently.

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## PROPERTIES:

	<b>Test Method</b>	<b>DL EAL-1</b>	<b>DL EAL-2</b>
Color		Blue	Blue
Thickener Type		Ca-sulfonate	Ca-sulfonate
NLGI Grade	ASTM D4950	1	2
Viscosity @ 40 °C	ASTM D445	460 cSt	460 cSt
Viscosity @ 100 °C	ASTM D445	30.2 cSt	30.2 cSt
Viscosity @ 100 °F	ASTM D445	2468 SUS	2468 SUS
Viscosity @ 210 °F	ASTM D445	148.2 SUS	148.2 SUS
Viscosity Index	ASTM D2270	> 94	> 94
Dropping Point	ASTM D566	°C (+500°F)	°C (+500°F)
Cone Penetration @ 25 °C (77 °F)	ASTM D217		
Unworked		325 dmm	380 dmm
Change worked 100,000 strokes		< + 20 dmm	< + 20 dmm
Rust Prevention (24h)	ASTM D1743	Pass	Pass
Oxidation Stability by OPV	ASTM D942	2.0 psi @ 100 hrs	2.0 psi @ 100hrs
Oil Separation	ASTM D1742	0.40 %	0.40 %
Water Spray Resistance	ASTM D4049	< 20%	<10%
Water washout 1 hr, 38 °C	ASTM D1264	1.8 %	1.3%
EP Properties (Four-Ball Method)	ASTM D2596		
Weld Point		500 kg-f	620 kg-f
OK Load (Timken Method)	ASTM D2509	50 lb-f	65 lb-f
Four-Ball Wear	ASTM D2266	0.45 mm	0.45 mm

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