

## DURALIFE® HEAVY DUTY EP BARIUM COMPLEX GREASES HDBC For Use in Drilling Rod Applications

**DURALIFE® HEAVY DUTY EP BARIUM COMPLEX GREASES HDBC** are premium high quality barium complex thickened greases, fortified with premium additives to provide excellent lubrication and adherence on metal surfaces. These greases are characterized by long-fibrous structures and has a highly tenacious appearance. They are recommended in drilling rod applications where adherence and sustainability on metal surfaces, in the presence of water, are desired. They contain extreme pressure additives for excellent protection where constant drilling vibration creates a high load on drilling rod joints.

### APPLICATIONS:

**DURALIFE® HEAVY DUTY EP BARIUM COMPLEX GREASES HDBC** are recommended in diamond drill rod applications and reduce wear and friction between drill rod and rock strata. Besides drilling applications, these greases are also recommended in any application where high adherence on metal surfaces in the presence or absence of water. These tenacious, long fiber barium greases has lubricated successfully to more than 2,000foot drill depths without wash off, or wipe off.

### BENEFITS :

- Increase drilling efficiencies
- Excellent adhesive and cohesive properties
- Thermally stable, extreme presure resisitance
- Good rust and corrosion protection
- Out standing water resistance properties
- Withstands heavy loads and protects from wear
- Reduce in the hole vibrations
- Extend the life of rod steel.

### TYPICAL CHARACTERISTICS :

Product Specifications	Typical Results	
	HDBC 2	HDBC 3
NLGI Grade	2	3
Thickener type	Barium complex	Barium complex
Texture	Fibrous/ Tacky	Fibrous/ Tacky
Dropping point , °C (°F) , ASTM D 2265, min.	204 (400)	204 (400)
Penetration @25 °C(77°F) , Worked (60 Strokes),0.1mm, ASTM D 217	265-295	220-250
4-Ball Wear, mm, 1hr ,75 °C ,1200 rpm,40 Kgf, ASTM D 2266	0.55	0.55
4- Ball EP, Weld point, Kgf , ASTM D 2596	500	500
Rust Protection, ASTM D 1743	Pass	Pass
Copper Corrosion, ASTM D 4048	1b	1b
Water Spray off, %, ASTM D 4049	< 10	< 10
Operating Temperature Ranges:		
Minimum, °C (°F)	-29(-20)	-29(-20)
Maximum Continuous Service, °C (°F)	177(350)	177(350)

*The above characteristics are average values based on recent production .Minor variations which do not affect product performance are to be expected in normal manufacture .*

### WARNING!

Contains petroleum distillates. Contact with skin or eyes can cause irritation. Avoid prolonged contact. Wash thoroughly after handling. Avoid breathing vapors. If irritation, headache or nausea occurs, remove to fresh air. Get medical attention if symptoms persist. If swallowed, do not induce vomiting. Consult physician immediately.

Keep away from children. Do not store above 120°F. Keep away from heat or flame.

Reference SDS Number 12168 database on our website at [www.amtecol.com](http://www.amtecol.com) OR scan the code for a direct link

