



Product Name: TRÖST Bitumen Graphite
Application: Open gears, mining, mills, crushers, draglines, kiln drives
Thickener Type: Bitumen base with Graphite
Base Structure: Non-soap, solid lubricant blend
NLGI Grade: Ropey to semi-fluid (non-standard grade)
Additive System: Graphite + EP additives + corrosion and oxidation inhibitors.

Product Overview

A premium, bitumen-based open gear lubricant containing solid graphite for extreme load-bearing capacity and long-lasting protection under harsh condition.

Application

- Ball mills and rotary kilns (open gears)
- Mining crushers and ore processing drives
- Offshore hoists, pulleys, cables
- Cement and construction site gear assemblies
- Large, slow-moving, high-load components

Performance Benefits

- Provides lubrication even when oil film breaks due to extreme loads
- Graphite enhances surface coating and protection
- Remains in place under water spray or dusty outdoor use
- Strong adhesion prevents slippage and ensures continuous protection
- Extends life of expensive gear systems exposed to the environment

Meets and Approvals

- Suitable for OEMs recommending bitumen/graphite open gear lubricants
- Compliant with heavy industry open gear lube standards
- Consult equipment manual for compatibility

Typical Properties

Property	Method	Typical Value
Appearance	Visual	Black, stringy, tacky
Thickener Base	—	Bitumen
Solid Lubricant	—	Colloidal Graphite
NLGI Consistency	—	Non-standard (semi-fluid to ropey)
Base Oil Viscosity @ 40°C	ASTM D445	>1000 cSt
Dropping Point	ASTM D2265	Not applicable (bitumen based)
4-Ball Weld Load	ASTM D2596	≥400 kg
Temperature Range	—	-10°C to +120°C
Water Washout Resistance	ASTM D1264	Excellent





Corrosion Resistance (EMCOR)	DIN 51802	0-0
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Storage and Handling

- Store in a dry, covered environment between 5°C and 40°C
- Avoid contamination and water ingress
- Use appropriate application tools for thick, adhesive grease
- Refer to the SDS for full safety, health, and environmental instructions.

