

# CALCIUM GRAPHITE (Rail track fasteners & Rail Flanges grease)

## DESCRIPTION

**CALCIUM GRAPHITE** greases is manufactured from premium quality calcium soap greases fortified with fine with micronized graphite powdered to give excellent lubrication in sliding friction conditions and to with stand high load. **CALCIUM GRAPHITE** is used for low temperature application & where water resistance is required with high load application. It is highly resistant to water and have good mechanical stability. Graphite present in the grease forms a thin layer on matting surface & reduce friction.

**CALCIUM GRAPHITE grease - 0** meets the specification of IS: 408-1981, RA -1993 & 2004

**CALCIUM GRAPHITE grease - 1** meets the specification of IS 508: 1987 (Grade 1, 2, 3) [Reaffirmed 1998]

## APPLICATIONS

- **CALCIUM GRAPHITE** recommended for use in gears, cams and slides operating at temperature to 80°C.
- **CALCIUM GRAPHITE** greases are recommended for open gears, pantographs, pump glands, link pins, bushes and linkages, or where plain bearing are badly worn, leaf springs, hydraulic rams, plungers, slides, elevator cables, pantograph pans, steel wire ropes, certain anti-seize, railway track fasteners & rail flanges.
- **CALCIUM GRAPHITE** greases can be used in slow speed ball/ roller bearings as well as flanges in railways network & railway track fasteners.
- **CALCIUM GRAPHITE-0** grease is recommended for use in railway track fasteners.
- **CALCIUM GRAPHITE-1** grease is recommended for specially designed for rail flange lubrication.
- **CALCIUM GRAPHITE** greases are highly recommended for flexible couplings in paper mill equipment such as digesters, chip screen, chippers, conveyors etc. where incidental water contact is high.

## FEATURES & BENEFITS

**CALCIUM GRAPHITE** greases provides the following benefits:

- Excellent adhesiveness resistance to high water characteristic and sealing property.
- Superior load carrying capability & excellent mechanical stability.
- Extends the life of rail tracks & wheel flanges.
- Reduces rolling friction between tracks and wheels - reduces fuel consumption.
- Reduces “hunting” as the contact time is reduced & noise in tight curves.
- Reduces maintenance as wear of tracks and wheel flanges are reduced.

## PROPERTIES

NLGI	0	1	2
Thickener Type	Calcium Soap	Calcium Soap	Calcium Soap
Color	Grey/Black	Grey/Black	Grey/Black
Appearance	Smooth & tacky	Smooth & tacky	Smooth & tacky
Graphite Content %	15	15	15
Worked Penetration	355-385	310-340	265-295
Dropping Point	95	95	95
Viscosity @ 40°C	160	160	160
Water Content % by mass	below 0.8	below 0.8	below 0.8
Free Alkalinity by mass	0.14 - 0.16	0.14 - 0.16	0.14 - 0.16
Free Organic Acidity by mass	max 0.3	max 0.3	max 0.3
Copper Strip Corrosion	Negative	Negative	Negative
Operating Temperature	-12 to +80	-12 to +80	-12 to +80

**POWERMALX LUBE INDIA**

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