

# **Balmerol® Sealguard HT N**

## **Grease for Slip Seal Mechanism in Sponge Iron Kilns**

Technical Data Sheet

### **Product Description:**

Balmerol Sealguard HT N is high performance Lithium complex grease designed for lubrication of slip seal for rotary kiln application. This grease is based on a superior variety of complex soap thickener in a high viscosity mineral base fluid and further fortified with a synergistic blend of suitable additive systems and is characterised by a high dropping point, outstanding oxidation stability, high extreme pressure & anti-wear capability and excellent adherence property to metal surfaces. The complex soap thickener along with a specific polymeric additive component imparts unique sealing characteristics to the grease with an excellent high temperature stability which is the most important requirement for slip seal application.

### **Features & Benefits:**

Balmerol Sealguard HT N provides the following benefits:

- High quality base oil with high viscosity
- Good pumpability with through centralized lubrication system
- High drop point to address high temperature requirements
- High load carrying capacity to resist extreme pressures, minimize friction and minimize wear
- Good film forming capacity to provide a sealing effect in the seal segment

### **Applications / Recommendations:**

- Balmerol Sealguard HT N is recommended for heavy duty steel plant and engineering applications where resistance to high temperatures loads and water is critical. It is ideal for applications where temperatures tend to shoot up intermittently. Typical applications include slip seal application in rotary kilns in sponge iron units, continuous casters and run out roll in steel plants.

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### Typical Properties:

Balmerol Sealguard HT N	
Properties	Sealguard HT N
Appearance	Smooth Tacky and Brownish
NLGI Grade	2 - 2/1
Thickener type	Lithium Complex
Base Oil Type	Mineral
Kinematic Viscosity @ 40°C, ASTM D 445, cst	460
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	290 - 310
Dropping Point °C, min, ASTM D 566	260
Four Ball Weld load, kgs, min., IP 239	280
Oxidation stability, 100h, psi drop, max., ASTM D 942	5
Emcor Rust test rating, distilled water ASTM D 6138	0,0
Four Ball Wear test, Scar Dia-in mm @ 1450 rpm, 70°C, 1 hr,max, ASTM D 2266	0.4
Maximum operating temperature in ° C	180

### Health and Safety:

Balmerol Sealguard HT N is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

**Balmer Lawrie & Co. Ltd.**  
SBU: Greases & Lubricants (G&L) Division  
P- 43, Hide Road Extension  
Kolkata: 700088  
www.balmerlawrie.com