

## Gazpromneft Steelgrease CS

*Multipurpose Extreme Pressure Water Resistant High Temperature Calcium Sulfonate Complex Grease*

**Gazpromneft Steelgrease CS** is multipurpose, extreme pressure grease based on a blend of high viscosity index mineral oils and calcium sulfonate thickener system. It provides excellent thermal stability, oxidation resistance, corrosion protection and extraordinary water resistance. Gazpromneft Steelgrease CS is designed for industrial bearings in wet, high-temperature and heavy load applications. They are available in NLGI grades 1 and 2. Gazpromneft Steelgrease CS is recommended for use over the temperature range -30°C to 200°C. It does not contain lead or any other heavy metals hazardous to human health and environment.

### Applications

- Gazpromneft Steelgrease CS is recommended for ball and roller bearings in machinery operating at high temperatures where resistance to water washout and corrosion are required, e.g. steel mill and mining operations

Features	Advantages and Potential Benefits
Outstanding resistance to water and corrosion	The calcium sulfonate thickener protects against water washout and bearing corrosion under extreme conditions
High load carrying properties	Excellent extreme pressure protection at low to moderate speeds for good equipment reliability and availability
Excellent mechanical stability	Resistance to grease softening in the presence of water with subsequent loss of lubrication performance and leakage
Excellent thermal stability and oxidation resistance	Extended service life with longer intervals between refilling and improved bearing life

Specification	Gazpromneft Steelgrease CS 1	Gazpromneft Steelgrease CS 2
DIN 51502	KP1S-30	KP2S-30
ISO	L-XCIB 1	L-XCIB 2

### Typical Characteristics

Properties	Method	Gazpromneft Steelgrease CS 1	Gazpromneft Steelgrease CS 2
NLGI Grade		1	2
Thickener Type		Calcium Sulfonate Complex	Calcium Sulfonate Complex
Color	visual	Brown	Brown
Penetration, worked 60 stokes, mm/10	ASTM D217	310-340	265-295
Dropping Point, °C	ASTM D2256	>300	>300
Base Oil Viscosity @40°C, mm²/s	ASTM D445	420	420
4-Ball Wear Scar Diameter, mm	ASTM D2266	0,5	0,5
4-Ball Weld Load, N	ASTM D2596	4000	4000
Rust Protection, distilled water	ASTM D6138	pass	pass
Copper strip corrosion, 24h @120°C	DIN 51811	1A	1A
Water Washout, wt%	ASTM D1264	1	1
Oil Separation, 24h @25°C, wt%	ASTM D1742	-	-

### Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use