Gazpromneft Steelgrease CS 1, 2

Specialized water-resistant greases, based on calcium sulphonate, for friction units, operating in conditions of high temperatures and extremely-high loads. Primarily intended for lubrication of continuous casting unit's bearings, hot rolling mills and other equipment of metallurgical plants. They are also used in a number of other industrial equipment units where frequent contact between greases and water exist. Grease Gazpromneft Steelgrease CS 1 is used for centralized lubrication system. Gazpromneft Steelgrease CS 2 is used as universal grease for both centralized lubrication system and as embedded. It does not contain lead or any other heavy metals hazardous to human health and environment.

Advantages

- Excellent performance characteristics within a range of temperatures from - 30°C to + 200°C.
- Due to exceptional anti-wear and extreme pressure properties perfectly withstands extremely high loads.
- Excellent oxidation and corrosion protection, due to unique thickener properties- calcium sulphonate.
- High water resistance – even with ingress of large amount of water, quality of greases does not change, and consistency changes slightly.

Typical physical and chemical characteristics

Parameters	Method	Gazpromneft Steelgrease	
		CS 1	CS 2
Compliance to standard	DIN 51502	KP 1 S-30	KP 2 S-30
NLGI Grade		1	2
Penetration, worked 60 stokes, 10^{-1} mm	GOST 5346	310-340	265-295
Operating temperatures range, °C		from - 30 to + 200	
Color	Visual	From light-yellow to brown color*	
Structure	Visual	Homogeneous	
Thickener Type		Calcium Sulphonate	
Base oil		Mineral	
Base Oil Viscosity @40°C, mm^2/s	GOST 33	420	
Dropping Point, °C	ASTM D2256	>300	
Corrosion effect on metals	GOST 9.080	withstand	
4-Ball Weld Load, N	GOST 9490	4136	
4-Ball Wear Scar Diameter, mm		0,5	
Water Washout, wt.%	ASTM D1264	<2	

*The color of the grease becomes lighter after contact with water or moisture

The company's management system is certified in accordance with the international standards

ISO 9001 ISO 14001 ISO 45001

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The above data are currently regarded as standard for the manufactured products. Due to ongoing research and development, the information contained in the document is subject to change. Information about the safe use of the product is given in the Safety Data Sheet. More detailed information can be obtained from the company's technical specialists. E-mail: Techservice@gazprom-neft.ru.
08/2025