

OPSTECH

HTLS Overhead Conductor Grease

Reliable Protection Grease for High Temperature Low Sag Conductors

Purpose-engineered for HTLS transmission lines that operate at higher temperatures while requiring long-lasting corrosion protection, thermal stability and consistent lubrication across ACSS, ACCC, ACCR and TACSR conductors.

Product Overview

OPSTECH HTLS Overhead Conductor Grease is developed for modern High Temperature Low Sag (HTLS) conductors where greater current capacity is delivered without major transmission-corridor changes. Operating temperatures are higher than for conventional ACSR lines, so conductors and accessories face greater oxidation, moisture, thermal-cycling and vibration stress. OPSTECH HTLS grease maintains consistency and protective performance during continuous heating and cooling, while providing corrosion resistance and reliable lubrication. It is suitable for HTLS conductors including ACSS, ACCC, ACCR, TACSR and other high-temperature transmission conductors. Backed by more than four decades of grease manufacturing experience, OPSTECH supplies cable manufacturers and power utilities worldwide, with products that can be manufactured to comply with IEC 61394, BS EN 50326 and GB/T 36292.

240°C	6	ACSS / ACCC / ACCR / TACSR	40+ yrs
Maximum continuous operating temperature	Series engineered for HTLS duty	Supported conductor families	OPSTECH grease manufacturing experience

Why HTLS Conductors Need Specialized Protection Grease

- Remains stable under repeated heating and cooling cycles.
- Resists humidity, salt spray and industrial pollutants at elevated temperatures.
- Reduces galvanic corrosion between dissimilar metals (aluminum, steel, alloys).
- Mitigates wear caused by wind vibration and load cycling.

Features & Technical Data

Stable Performance at Elevated Temperature Maintains consistency and protective performance through continuous heating/cooling cycles at HTLS operating temperatures.	Effective Corrosion Protection Forms a durable layer that blocks humidity, salt spray, industrial pollutants and aluminum-to-steel galvanic corrosion.	Good Adhesion & Low Oil Separation Formulated to stay where it is applied — minimizing grease migration during long-term overhead service.
Long-Term Maintenance Reliability Reduces surface degradation so inspection intervals can be extended and routine maintenance lightened.	Galvanic Corrosion Resistance Engineered to limit corrosion at aluminum / steel / alloy contact points common in HTLS joints and accessories.	Mechanical Vibration Tolerance Holds its protective layer under wind-induced vibration and thermal-expansion movement.

Technical Data

Item	OPS20A120	OPS40A120	OPS20A180	OPS40A180	OPS60A180	OPS40A240
Max. Operating Temp.	120 °C	120 °C	180 °C	180 °C	180 °C	240 °C
Min. Operating Temp.	-20 °C	-40 °C	-20 °C	-40 °C	-60 °C	-40 °C
Drop Point	>280 °C	>280 °C	>300 °C	>300 °C	>300 °C	>330 °C
Recommended Use	ACSR/OPGW	ACSR/OPGW	ACSR/OPGW	ACSR/OPGW	OPGW	HTLS
EN 50326 Compliant	☐	☐	☐	☐	☐	☐
IEC 61394 Compliant	☐	☐	☐	☐	☐	☐
GB/T 36292 Compliant	☐	☐	☐	☐	☐	☐

Note: Values are typical and can be tailored per customer requirement. Every batch is quality-inspected before delivery.

Typical Applications, Compliance & Contact

Typical Applications

ACSS Conductors Aluminum conductor steel supported	ACCC Conductors Aluminum conductor composite core	ACCR Conductors Aluminum conductor ceramic reinforced
TACSR Conductors Thermal-resistant aluminum conductor steel reinforced	Compression Joints Heat-resistant splicing and sealing	Dead-End Clamps Anchoring hardware on HTLS lines
Suspension Fittings Longevity at high-temp suspension points	High-Capacity Uprates Renewable / long-distance grid upgrades	Renewable Grid Tie-Ins Wind / solar interconnection lines

Compliance & Quality

IEC 61394 International standard for overhead conductor greases

BS EN 50326 European standard for conductor anti-corrosion grease

GB/T 36292 Chinese national standard for overhead conductor grease

Contact Us

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Request a Quote
Call or email us — our engineers will recommend the right grade for your line.