

OPSTECH

OPGW Overhead Conductor Grease

Corrosion Protection Grease for Optical Ground Wire (OPGW)

Specialized grease for OPGW cables that share grounding and fiber-optic communication duties — sealing internal metal components against moisture and corrosion for decades of reliable service.

Product Overview

OPSTECH OPGW Overhead Conductor Grease is specially formulated for Optical Ground Wire (OPGW) cables used in modern transmission networks. It provides long-term corrosion protection for metallic components inside the cable while remaining fully compatible with galvanized steel wires, aluminum alloy elements, stainless steel tubes and optical fiber structures. OPGW cables combine grounding and fiber-optic communication within a single cable; over time, rain, humidity, coastal salt spray, UV radiation, industrial pollutants and temperature fluctuations can affect internal metal components if adequate protection is not provided. OPSTECH grease forms a durable barrier that prevents water ingress, minimizes oxidation and reduces galvanic corrosion, helping maintain both mechanical strength and communication reliability throughout the cable's service life. With more than four decades of grease manufacturing experience, OPSTECH supplies cable makers and power utilities worldwide, with products that can be manufactured to comply with IEC 61394, BS EN 50326, GB/T 36292 and customer-specific requirements.

45+ yrs	6	EHV / UHV	Worldwide
OPSTECH grease manufacturing experience	OPGW-tuned series in the range	Transmission classes supported	Cable makers & utilities served

Why OPGW Conductors Need Protective Grease

- Blocks moisture penetration that would otherwise reach internal metal components.
- Protects steel tubes, galvanized wires and aluminum elements against corrosion.
- Reduces galvanic corrosion between dissimilar metals inside the cable.
- Maintains mechanical integrity and optical-communication reliability over decades.

Features & Technical Data

Excellent Moisture Barrier

Forms a continuous protective layer that blocks water, oxygen and environmental contaminants from entering the OPGW cable.

Superior Corrosion Protection

Protects internal metal components against oxidation, rust and galvanic corrosion during long-term outdoor exposure.

Compatible with OPGW Structures

Engineered to coexist safely with optical fiber units, stainless steel tubes, galvanized steel wires and aluminum alloy components.

Stable Across Wide Temperatures

Maintains consistency under both high and low temperatures without excessive softening, separation or hardening.

Long-Term Reliability

Provides durable protection throughout the expected service life of OPGW cables while lowering maintenance needs.

Optical-Fiber Safe

Neutral formulation that does not degrade buffer coatings, acrylate fiber jackets or stainless steel laser-welded tubes.

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

OPGW Cable Manufacturing In-process filling during stranding & assembly	EHV Transmission Lines Extra High Voltage backbone protection	UHV Power Projects Ultra High Voltage long-span grid links
Utility Communication Networks Ground + fiber backbone for telemetry & SCADA	Smart Grid Infrastructure Sensors, teleprotection & AMI backbones	Coastal Transmission Systems Salt-spray heavy coastal corridors
Mountain & High-Humidity Steep routes, persistent condensation zones	Industrial Pollution Areas Refineries, smelters, chemical plants	Line Upgrades & Maintenance Brownfield retrofits, service extensions

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.