

**OPGW Overhead Conductor Greases (also called OPGW filling greases/jelly) are specialized, semi-solid, non-conductive filling compounds designed exclusively for Optical Ground Wire (OPGW) cables—hybrid structures that combine overhead power grounding (like ACSR) with optical fiber communication. They fill critical internal gaps to protect both the optical fibers and the metallic structural components.**

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## **Core Functions**

- Water blocking & moisture sealing: Prevents water/humidity ingress to avoid fiber signal loss and metal corrosion.
- Corrosion protection: Shields steel/aluminum strands and fiber tubes from galvanic corrosion, salt spray, and industrial pollutants.
- Mechanical cushioning: Absorbs vibration, wind/ice load, and bending stress; reduces fiber micro-bending and breakage.
- Lubrication: Minimizes inter-strand friction during manufacturing and operation.
- Thermal stability: Remains stable across wide temperatures (-60°C to ~180°C) without dripping, oil separation, or hardening.
- Electrical/optical compatibility: Non-conductive, does not interfere with power grounding or light transmission.

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## **Features and Benefits**

- » **Minimizes oil bleed during normal operation and post – fault conditions of transmission lines.**
- » **Provides superior corrosion protection for conductors in diverse environments, including coastal high – salt zones, heavy industrial pollution areas, and high – humidity and heat regions.**
- » **Tailored formulations cover full temperature range from ambient to 240°C for transmission line operations.**
- » **High – temperature specialized synthetic grease resists oil separation and stays stable under extreme heat.**
- » **It has exceptional low – temperature stability, preventing cracking down to – 60°C.**

» **With outstanding oxidation resistance and anti – aging properties, it extends service life.**

» **Complies with GB/T 36292 – 2018, BS EN 50326 – 2002, and IEC 61394 – 2011 standards.**

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## Technical Data

Items	OPS20A120	OPS40A120	OPS20A180
Description	20A120	40A120	20A180
Max. Temp. Rating	120° C	120° C	180° C
Min. Temp. Rating	20° C	40° C	20° C
Drop Point	>280° C	>280° C	>300° C
Application	ACSR&OPGW	ACSR&OPGW	ACSR&OPGW
EN 50326 Compliant	Yes	Yes	Yes
IEC 61394 Compliant	Yes	Yes	Yes
IGB/T 36292 Compliant	Yes	Yes	Yes