

General Description

GR043 is a compound based on high quality mineral oil, suitable for **medium temperature** performance, excellent adhesion, water resistance, rust and corrosion protection.

Performance in Cables

The chemical properties of the compound remain stable if kept in a temperature range between -50°C to 85°C; short exposures to temperatures up to 300°C will not affect them.

Cables manufactured with GR043 will show **good resistance to corrosion** through the lifetime of the product as the gel will keep moisture out, and the additives will also help to reduce oxidation. This material was specifically designed and tested for cables exposed to weather conditions.

Processing

Grease may be pumped with the usual metering pump devices at room temperature (cold filling technology). Constant quality ensures high-speed, trouble-free production.

Health, Safety Precautions and Identification

- non irritant to eyes
- non irritant to skin
- non nutritive to fungus

Good personal hygienic practice should be used, and prolonged contact with skin should be avoided. Based on our current knowledge and available information, GR043 does not pose any health risks.

For further information, please refer to the Safety Data Sheet.

Packaging

20 kg pail	top internal diameter	328 ± 1 mm
	bottom internal diameter	312 ± 1 mm
	height	383 ± 1 mm
170 kg ribbed drum	internal diameter	571 ± 3 mm
	height	875 ± 5 mm
170 kg straight-sided drum	internal diameter	571 ± 3 mm
	height	885 ± 5 mm
850 kg returnable (IBC) container	length x width x height	1,200 x 1,000 x 1,185 mm
850 kg disposable lined container	length x width x height	1,200 x 1,000 x 1,400 mm

Other container types and sizes such as plastic or stainless steel can be tailored to customer requirements based on quantities and location.

Storage Information

Protect from moisture; storage life several years.



Oxi Defender™ GR043

Characteristics	Value	UOM
Density	0.95 ± 0.05	g/cm ³
Flash Point DIN EN ISO 2592, ASTM D92	> 220	°C
Viscosity @ 25°C, 20s ⁻¹	50,000 ± 5,000	mPa•s
Yield Stress	> 25	Pa
Cone Penetration 20°C	> 340	1/10 mm
-40°C	> 140	1/10 mm
Volatiles (by weight) 80°C/24 hrs	< 0.5	%
Oxidation Induction Time ASTM D3895	> 30	min
Oil Separation (FTM 791.C) 120°C/24 hrs	0	%
NLGI Grade	2	Scale
Color	Light Gray	Visual
Dropping Point ASTM D2265	280	°C
Copper Strip Corrosion ASTM D4048	1A	
Water Spray Resistance, % Spray-off ASTM D4049	12.0	%
Salt Spray Corrosion Test ASTM B117 - 1000 hours	7G	ASTM D610
Salt Fog Soak Test ASTM B117 (modified) - 720 hours	No Emulsification	Visual

Compatibilities

PET, PBT, PA, PC	Compatible with thermoplastic materials commonly used in cables
PE	To be checked by the cable manufacturer; results are greatly influenced by material type

This Technical Information reflects the current knowledge, and is designed to inform and advise. Info-Gel assumes no liability for correctness. Modifications may be made in the interest of technical improvement.



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