CABLE ACCESSORIES COMPANY

TECHNICAL DATA SHEET

ARTICLE	**G4J – FILLING GEL FOR CABLE JOINTS**
DATE	13/10/2022
REVISION	1
DOCUMENT	G4J_TDS_UK

G4J is a Polymeric Gel on elastomeric cross-linked base (Slow-Room-Temperature-Vulcanizing 2-component silicone elastomer), chemically inert and absolutely no toxic, designed to insulate and seal cable jointing for buried and/or submersible installations.

PROPERTY		TEST METHOD / NOTE	UNIT	TYPICAL VALUE
Physical	Aspect	-	-	Gel
	Colour	-	-	Clear and transparent
	Initial Hardness	Penetration cone ASTM D 217/C	1/10 mm	340
	After aging hardness	Penetration cone ASTM D 217/C	1/10 mm	290
	Hardness		-	0 SHORE 00
	Density		g/cc	0,97
	Thermal conductivity	-	W/mK	Approx 0,2
	Continuous working temperature	-	°C	from -60 to +150
	Installation temperature	(related to joints)	°C	from -40 to + 50
	Water absorption after 30 days immersion	-	%	<< 0,05%
Flammability	Flame class	UL 94	-	HB
	Flammability point	-	°C	>200
	Auto-ignition temperature	-	°C	>400
Electrical	Dielectric strength	-	kV/mm	20
	Dielectric constant / Permittivity	@ 100Hz @ 100kHz	-	2.95 2.95
	Power factor / Tan δ	@ 100Hz @ 100kHz	-	0,0025 0,00015
	Volume resistivity	-	Ω cm	2,4 x 10exp 15

EXPOSITION TO CHEMICALS OF CROSSLINKED PRODUCT	
Salt, salty water etc	have no adverse effect.
Sea water or chlorine environments (swimming pools etc.)	have no adverse effect.
Inorganic acids in water solutions	have not visible effects.
Strong, pure acids or alkaline (not in solution)	The exposition has to be avoided, especially at high temperature.
Alkaline solutions and vinegar	could bring, after a long time of exposition, to a softening of the external surface.
Solutions of hydrocarbons in water	could give, after a long exposition at quite high temperatures, the hardening of the external surface of the products; of course, nothing happens for temporary expositions
Pure hydrocarbons	Permanent immersion in strong and pure hydrocarbons has to be avoided.

ISO 45001 ISO 9001 ISO 14001

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R.E.A. 1458135 ● Iscr. Reg. Imp. MI 11325760152 ● Capitale Sociale € 78000,00 i.v.
P.IVA e C.F.: 11325760152 ● No. Iscr. Reg. AEE IT19020000011121

SHELF LIFE	
Unlimited shelf life, when correctly installed according to the relevant instructions of the accessory.	

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