

ShifuGrout T508 Series - Thermal Grout

A Heat-conducting Material for Underground Power Transmission





ShifuGrout T508 Series

<u>ShifuGrout T508 Series</u> is used to transmit heat from underground electrical cables to surrounding soil or rock, especially for HDD projects.

The low thermal resistance of the <u>ShifuGrout T508 Series</u> ensures excellent heat dissipation, therefore reduces capacity loss in the cable line and the power capability of the cable route is thus permanently increased.

DESCRIPTION

<u>ShifuGrout T508 Series</u> is a heat-conducting special construction material developed as a backfilling material for underground power transmission. As its excellent free-flow properties, <u>ShifuGrout T508 Series</u> is outstandingly well-suited for backfilling the residual annular space between the cable and the tube, especially for Horizontal Directional Drilling (HDD) projects.

FEATURES AND BENEFITS

- Excellent free-flowing properties
- Able to pump for long-distance and large height
- Improved heat dissipation for cables
- Increased power capacity
- Reduction of conductor cross-section area
- Resistance to setting to enable cables to be replaced and maintained in the future

CONSUMPTION

- Water demand: Approx. 80%
- 1000 kg powder will yield approximately 1200 litre of mixed grout

PACKAGING

<u>ShifuGrout T508 Series</u> is packed in a watertight bulk bag, 1te/bag.

STORAGE

- Store under a dry condition in closed silos.
- Shelf life under these conditions is 6 months.



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PERFORMANCE

T508-8 Technical Data		Unit	Values	
Thermal Resistance		sured with the OMET 2014	(m·K)/W	≤ 0.8
Thermal Conductivity		sured with the OMET 2014	W/(m·K)	≥ 1.25

T508-7 Technical Data		Unit	Values
Thermal Resistance	Measured with the ISOMET 2014	(m·K)/W	≤ 0.7
Thermal Conductivity	Measured with the ISOMET 2014	W/(m·K)	≥ 1.43

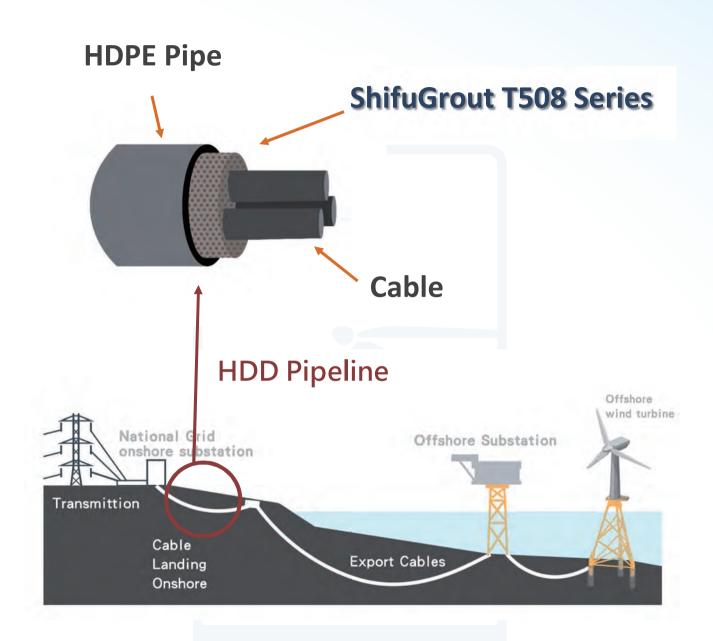
T508-5 Technical Data		Unit	Values
Thermal Resistance	Measured with the ISOMET 2014	(m·K)/W	≤ 0.5
Thermal Conductivity	Measured with the ISOMET 2014	W/(m·K)	≥ 2.0

T508-4 Technical Data		Unit	Values	
Thermal Resistance		Measured with the ISOMET 2014	(m·K)/W	≤ 0.4
Thermal Conductivity		Measured with the ISOMET 2014	W/(m·K)	≥ 2.5

Original ShifuGrout T508 Series thermal grout material is a non-hardening suspension. We could customize
the material base on clients' requests as well: The material with compressive strength or different requests
of thermal resistance/ conductivity.







Compare with Other Materials

Other Material	Thermal Resistance (m·K)/W	Thermal Conductivity W/(m·K)
Concrete	1	1
Water	1.7	0.6
Air	45	0.02

