100% Made in Taiwan



ShifuGrout T508 Series - Thermal Grout

A Heat-conducting Material for Underground Power Transmission

潤泰精密材料
RUENTEX MATERIALS

ShifuGrout T508 Series

ShifuGrout T508 Series is used to transmit heat from underground electrical cables to surrounding soil or rock, especially for HDD projects.
The low thermal resistance of the ShifuGrout T508 Series 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

ShifuGrout T508 Series is a heat-conducting special construction material developed as a backfilling material for underground power transmission. As its excellent free-flow properties, ShifuGrout T508 Series 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. 70%
- 1000 kg powder will yield approximately 1200 litre of mixed grout

PACKAGING

- ShifuGrout T508 Series 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.

ShifuGrout T508 Series

PERFORMANCE

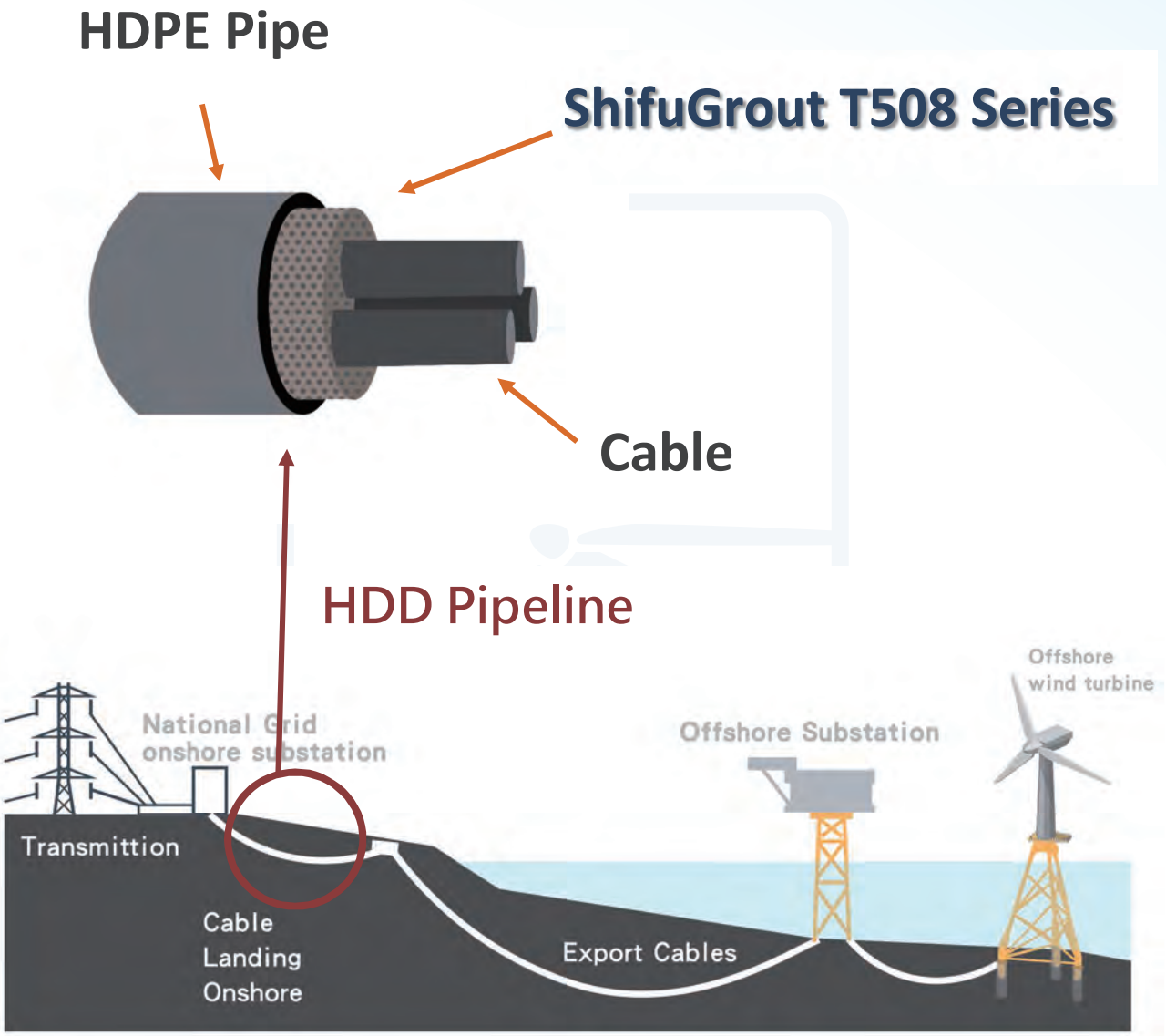
T508-8 Technical Data		Unit	Values
Thermal Resistance	Measured with the ISOMET 2014	(m·K)/W	≤ 0.8
Thermal Conductivity	Measured with the ISOMET 2014	W/(m·K)	≥ 1.25

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