

Product Data Sheet

Cebo Conduct-Gel – all types

Cebo Conduct-Gel is a range of high-performance, cement-free thermal backfill materials, developed to ensure efficient and reliable heat transfer in underground applications. All Conduct-Gel types are based on a specially selected bentonite/graphite mixture, forming a non-hardening suspension with excellent flowability and long-term thermal stability. The range is designed to offer different levels of thermal conductivity, allowing the installer or designer to select the most suitable grade based on thermal performance requirements, installation conditions and project economics.

Advantages

- Type 1 – 1.3: Flowability, ease of installation and flexibility with a moderate conductivity
- between performance and workability with a medium conductivity
- 2.0 – 2.5: High-performance grades for maximum thermal efficiency

Typical Properties						
Parameter	In accordance with	1.0	1.3	1.5	2.0	2.5
Specific Gravity	ASTM E946-92	≈ 2300 kg/m ³	≈ 2300 kg/m ³	≈ 2300 kg/m ³	≈ 2300 kg/m ³	≈ 2300 kg/m ³
Bulk Density	DIN 18132	≈ 900 kg/m ³	≈ 900 kg/m ³	≈ 900 kg/m ³	≈ 900 kg/m ³	≈ 900 kg/m ³
Suspension Density	ASTM D5890	≈ 1100 kg/m ³	≈ 1520 kg/m ³	≈ 1520 kg/m ³	1520 kg/m ³	1520 kg/m ³
Thermal Conductivity	ASTM D5334-14	1.05 W/m·K	1.25 W/m·K	1.43 W/m·K	2.0 W/m·K	2.5 W/m·K
Thermal Resistivity	ASTM D5334-14	0.95 m·K/W	0.8 m·K/W	0.7 m·K/W	0.5 m·K/W	0.4 m·K/W
Specific Gravity	ASTM E946-92	≈ 2300 kg/m ³	≈ 2300 kg/m ³	≈ 2300 kg/m ³	≈ 2300 kg/m ³	≈ 2300 kg/m ³
Bulk Density	DIN 18132	≈ 900 kg/m ³	≈ 900 kg/m ³	≈ 900 kg/m ³	≈ 900 kg/m ³	≈ 900 kg/m ³
Suspension Density	ASTM D5890	≈ 1100 kg/m ³	≈ 1520 kg/m ³	≈ 1520 kg/m ³	1520 kg/m ³	1520 kg/m ³
Thermal Conductivity	ASTM D5334-14	1.05 W/m·K	1.25 W/m·K	1.43 W/m·K	2.0 W/m·K	2.5 W/m·K

Recommended Use

For the mixing of the suspension, a low shear mixing system should be used and products are to be mixed based on the following ratios:

- Conduct Gel 1.0: 164 kg / 932 litres water
- Conduct Gel 1.3: 844 kg / 675 litres water
- Conduct Gel 1.5: 844 kg / 675 litres water
- Conduct Gel 2.0: 844 kg / 675 litres water
- Conduct Gel 2.5: 844 kg / 675 litres water

Conduct Gel is available in 1000 kg big bags as bulk

Version: v1 2026

*As far as we can judge, the above information is correct. However, we cannot give you any guarantees about the results you will achieve with this. This description is offered to you on the condition that you decide for yourself to what extent it is suitable for your purposes.