ONSHORE WIND TURBINE FOUNDATION GROUT

CBGM Wind Turbine Foundation Grout Range

Product code: CBGM-80 / 90 / 100 / 110 / 130 | English technical translation | Revision EN-01

Factory-blended, high-flow, shrinkage-compensated cementitious grouts for onshore wind turbine baseplates, anchor cages and load-transfer joints. The grade is selected from the structural requirement, installation gap, temperature, pumping route and required strength ages.

SOURCE STATUS	Translated from the supplied Chinese product manual. Requirements are kept separate from independent test results. Confirm the current controlled TDS, batch label and project specification before approval.

Intended use

- Tower baseplate undergrouting
- Anchor cage and anchor bolt zones
- Horizontal foundation load-transfer joints
- 25 to 300 mm project-approved gaps

Product characteristics

- High flow without mechanical vibration
- Early strength for erection sequencing
- Controlled expansion and zero-bleeding design route
- Grade-specific compressive and flexural strength
- Frost resistance requirement of at least F200 in the supplied manual

Technical requirements

Property	Requirement / published value	Source / interpretation
Initial / 30 min flow - CBGM-80	>=340 / >=310 mm	GB/T 50448-2015; supplied manual
Initial / 30 min flow - CBGM-90	>=290 / >=260 mm	GB/T 50448-2015; supplied manual
Initial / 30 min flow - CBGM-100	>=340 / >=310 mm	GB/T 50448-2015; supplied manual
Initial / 30 min flow - CBGM-110	>=290 / >=260 mm	GB/T 50448-2015; supplied manual
Initial / 30 min flow - CBGM-130	>=340 / >=310 mm	GB/T 50448-2015; supplied manual
3 h vertical expansion	0.1 to 3.5%	All listed grades; supplied manual
24 h minus 3 h expansion	0.02 to 0.5%	All listed grades; supplied manual
1 / 3 / 28 d compressive - CBGM-80	>=30 / >=50 / >=80 MPa	Supplied manual
1 / 3 / 28 d compressive - CBGM-90	>=40 / >=60 / >=90 MPa	Supplied manual
1 / 3 / 28 d compressive - CBGM-100	>=40 / >=60 / >=100 MPa	Supplied manual
1 / 3 / 28 d compressive - CBGM-110	>=40 / >=60 / >=110 MPa	Supplied manual
1 / 3 / 28 d compressive - CBGM-130	>=50 / >=80 / >=130 MPa	Supplied manual
28 d flexural strength by grade	>=10 / >=10 / >=16 / >=16 / >=20 MPa	CBGM-80 through CBGM-130

Installation control

01	Confirm the approved grade, gap, grout volume, substrate condition and release-strength requirement.
02	Use a calibrated water dose and a suitable high-shear or project-approved mixer.
03	Place continuously from one side and maintain an uninterrupted discharge route.
04	Record flow, temperature, batch times and test specimens in accordance with the inspection plan.
05	Protect curing and release the structure only after the specified strength has been verified.

Packaging and storage

25 kg composite bags. Store unopened in a dry, ventilated area. The supplied manual states a 3-month storage period; confirm the current batch label and controlled TDS.

Project approval checklist

- Connection drawing, gap geometry and total material volume
- Specified requirement, test age, specimen geometry and applicable method
- Minimum and maximum material, substrate and ambient temperatures
- Mixer, pump, hose, standby equipment and continuous placement capacity
- Inspection, sampling, curing and release-strength plan
- Current approved TDS, SDS and project-specific method statement

Technical contact

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