

# Fischer GeoFlow IQ®

Magnetically doped, very efficient grouting material with high thermal conductivity for geothermal probes, well drilling and underground engineering.



- ✓ **More safety through measurability**  
Control check possible at any time.
- ✓ **High cost-efficiency**  
Efficient use of material due to high productivity.
- ✓ **High thermal conductivity**  
Thermally optimised with a thermal conductivity > 2.0 W/mk.
- ✓ **Conforms to VDI 4640**  
Thermal use of the subsoil, sheet 2.
- ✓ **Very easy to process**  
Good-quality of product facilitates everyday work on the construction site easier.
- ✓ **Sulphate resistance**  
Especially for geothermal drilling in case of sulphate-aggressive groundwater.
- ✓ **Frost resistance**  
According to DIN EN 12371:2010-07.

## Fields of application

Fischer GeoFlow IQ® is a magnetically doped building material, therefore the control measurements are possible at any time. It has been specially developed for backfilling of the geothermal probe drillings, but also for sealing and backfilling work in the well construction and underground engineering. The product combines a particularly high productivity with a very high thermal conductivity. The material is also suitable for locations with sulphate-aggressive groundwater.

<b>Suitable area of application</b>	Can be used in any surface.
<b>Mixing ratio</b>	12.0 l of water: 25 kg of Fischer GeoFlow IQ® for compulsory mixers or 16.0 l of water: 25 kg of Fischer GeoFlow IQ® for colloidal mixers. Pay attention to the precise water proportioning.
<b>Processing time</b>	Process quickly after mixing.
<b>Processing temperature</b>	Can be processed from + 5 °C to max. + 25 °C
<b>Consumption</b>	1020 kg Fischer GeoFlow IQ® per m <sup>3</sup>
<b>Productivity</b>	985 l/t
<b>Marsh funnel time</b>	68 sec.
<b>Suspension density</b>	~ 1.6 kg/dm <sup>3</sup>
<b>Effective thermal conductivity</b>	2.0 W/mk
<b>Compressive strength</b>	> 5.0 N/mm <sup>2</sup>
<b>Water permeability-coefficient kf</b>	< 10 <sup>-10</sup> m/s
<b>Tools / Equipment</b>	Fischer GeoFlow IQ® can be mixed to a pumpable suspension in the standard mixing systems after adding clean water. The mixing time depends on the mixer, but should be selected until a uniform consistency is achieved.
<b>Storage</b>	Can be stored dry on a pallet for approx. 6 months in the unopened original containers.
<b>Delivery form</b>	25 kg Sack /40 Sack pro Europalette + Big Bags
<b>Notes about your safety</b>	Contains cement, highly alkaline on reaction with moisture / water, therefore protect skin and eyes. In case of contact rinse thoroughly with water. In case of eye contact, consult a doctor. Not subject to classification according to the Ordinance on Hazardous Substances. Please note the safety data sheet for Fischer GeoFlow IQ®.

**Disclaimer**  
The above specifications are applicable for the tests under laboratory conditions with the usual metrological tolerances. These tests were carried out to investigate the suitability of the products with regard to the field of application. They are non-binding and do not release the recipient of the declaration from its own tests and trials. As a result of the absence of features and/or properties, we do not accept any responsibility; nor it is possible to derive any claims for compensation.