



Shandong TianSheng Cellulose Corp., Ltd.

Address: Huangzhen Industry Park, Mudan District,
Heze, Shandong, China
Tel: +86-530-5058567
E-mail: tschem@tschem.com.cn
www.tschem.com.cn

TS[®] R1004 HPMC with enhanced properties

Technical Data Sheet

Application scope

TS[®] R1004 cellulose ether is a kind of non-ionic, water-soluble polymer powder that was developed to improve working ability of dry mixed mortars such as:

- Self-leveling compounds
- Non-shrinkage grouting mortar
- Pressure injection slurry
- Sealing slurry
- Special applications of mortar and concrete

Recommended dosage of total dry mixed mortar

- 0.04-0.15%

Typical performance

- ✓ Good suspension stability of flowing mortar
- ✓ Low influence on mortar strength development
- ✓ Easy to obtain a smooth surface
- ✓ Good compatibility with other additives

Storage and delivery

TS[®] R1004 cellulose ether belongs to hygroscopic and hydrophilic polymer powder, so it should be stored and delivered under dry and clean conditions in its original package form and away from heat. After opening the package for production, it must be resealed tightly to avoid ingress of moisture.

Shelf life

At least 2 years under cool and dry condition. For material storage over shelf life, quality confirmation test should be done before use.

Product safety

According to EU legislation on dangerous substances and preparations, TS[®] R1004 cellulose ether does not belong to hazardous material. Further information on safety aspects is given in Material Safety Data Sheet.

Typical properties

Grade	R1004
Chemical name	Hydroxypropyl Methyl Cellulose Ether (HPMC)
Appearance	White or off-white powder
Bulk density (kg/m ³)	250-550
Particle size (passing 0.212 mm)	≥ 92%
pH value	5.0-9.0
Viscosity (mPa·s)	280-380 ¹

Note

1) 2% solution, Brookfield RV, 20rpm, 20°C.

All of data, suggestions, and proposals presented here are based on our current knowledge and experience in raw materials and application technologies, which do exclude the responsibility of users to scrutinize the quality of all received products. Because we are out of control of quality in users' raw materials, production and application methods, service conditions as well as local standards, our suggestions and proposals do not imply any guarantee and promise for end product quality. The users should be responsible for formulation adjustment according to real conditions to meet project quality requirements.