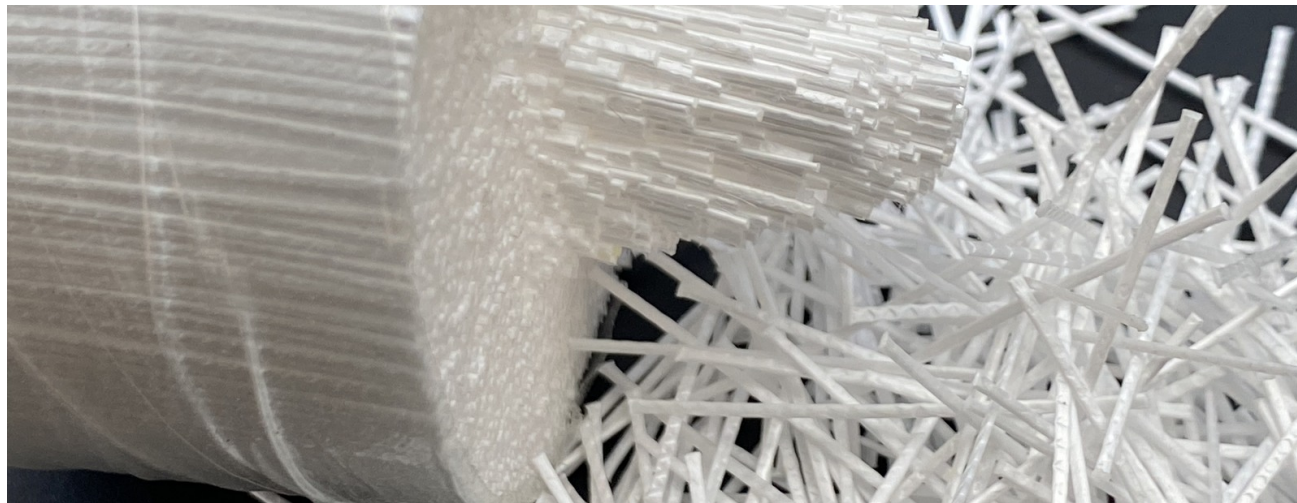


MINING & TUNNELLING / SHOTCRETE FIBRE

HIGH STRENGTH SHOTCRETE 48

Embossed virgin PP fibre for dry- and wet-mix shotcrete



1 PRODUCT DESCRIPTION

High Strength Shotcrete 48 is a white macro synthetic fibre made from 100% virgin polypropylene with no added additives. The fibre has a near-round or oval section and a diamond-embossed surface. It is intended for mine roadway support, tunnel support and other dry- or wet-mix shotcrete work, subject to project verification.

MINING ROADWAYS

TUNNEL SUPPORT

SHOTCRETE WORKS

2 TECHNICAL PROPERTIES

PROPERTY	DECLARED VALUE
Material	100% virgin polypropylene; no additives
Form	Near-round/oval fibre; diamond embossed
Colour	White
Standard length	48 mm; custom lengths by agreement
Equivalent diameter	0.70 mm
Tensile strength	≥ 570 MPa
Elongation at break	$< 30\%$
Elastic modulus	≥ 11 GPa

Declared values are product specifications. A commissioned test result is a sample result and is not presented as a guarantee for every batch.

3 RECOMMENDED DOSAGE

Recommended starting range for shotcrete. One domestic energy-well project used 5 kg/m³; this is a project reference, not a universal design value.

4-8 kg/m³

DOSAGE BASIS: MASS OF FIBRE PER CUBIC METRE OF CONCRETE

4 BATCHING AND MIXING

- 1 Dose by weight. For wet-mix shotcrete, add the water-soluble collated fibre units with the cement and aggregates during normal batching.
- 2 For wet mix, continue mixing for an additional 3-5 minutes after fibre addition, or until uniform dispersion is confirmed.
- 3 For dry-mix shotcrete, dry-mix the measured fibre with cement, sand and aggregate; water is introduced at the nozzle.
- 4 Dry-mix sequence, feed stability and spray parameters must be qualified for the actual equipment and experienced operating crew.

5 PACKAGING AND STORAGE

PACKAGING

Water-soluble film collated bundles packed in cartons. Standard carton net weight: 5 kg or 10 kg.

STORAGE

Store dry, protected from moisture and direct sunlight. Keep the original packaging closed until use.

6 TEST DOCUMENTATION

Selected physical-property data are supported by commissioned report JCBG(01)250106781, tested to GB/T 21120-2018. A public scan copy may be provided for reference; the formal stamped report is not published. Energy absorption and residual strength are not declared in this revision.

7 IMPORTANT USE NOTICE

Recommended dosage and processing guidance are starting points only. Confirm suitability through project-specific trial mixes, production trials and, where required, independent testing. This TDS is not a structural design, acceptance certificate or third-party test report.

MANUFACTURER

Shandong Kairuida Building Materials Co., Ltd.

INTERNATIONAL SALES

Tai Pu Shi Da (Binzhou) New Materials Technology Co., Ltd.

CONTACT

songpingping69@gmail.com | +86 159 6543 3989 | conchip.net