

Product Information

PP Fibers - Polytwist

Product Description:

PP Fibers - Polytwist consists of twisted bundles of monofilament polypropylene synthetic fibres that has been specifically designed for shotcrete, tunnel linings and other concrete structural reinforcement applications. The fibres increase the strength and cracking resistance of the concrete by effective energy absorption and load distribution of the concrete. Synthetic fibres are, light weight, non-magnetic and corrosion resistant unlike steel fibre and wire mesh. Polypropylene fibres have high thermal and chemical stability.

Applications:

PP Fibers - Polytwist are used as an additive in shotcrete and concrete to increase its strength, cracking resistance and reduce spalling. It can be used in industrial floors, shotcrete, tunnelling, topping and screeds, concrete pipes, precast concrete, concrete roads and pavements.

Chemical Formula:

$(C_3H_6)_n$

CAS No. :

9003-07-0

Specifications:

Parameters (units)	Specifications
Color	Grey
Length (mm)	54 ± 2
Equivalent diameter (mm + 5%)	0.48 - 0.50
Aspect ratio	~ 112
Density (g/cm ³)	0.91
Elastic modulus (GPa)	7.2 - 8.5
Tensile strength (MPa)	560 - 650
Melting point (°C)	≥ 165
Ignition point (°C)	≥ 360

Bisley International LLC
1790 Hughes Landing Boulevard Suite 400
The Woodlands 77380 TX USA
Phone number: +1 (844) 424 7539
Emergency telephone number: +1 855 237 5573

bisleyinternational.com

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Dosing:

Doses of synthetic macro fibres vary between 2 - 5 kg/m³ depending on desired engineering requirements. Homogeneous mixture is obtained by the addition of PP Fibers - Polytwist to the aggregate band at the concrete batching plant or by mixing in a high-speed concrete mixer for at least 5 minutes.

Packaging:

Material is available in 5 kg bags. Further packaging options may be available upon enquiry.

Storage:

Product should be stored in a dry place away from direct sunlight in sealed, original packaging. Should not be stored near flammable and oxidizing materials.

Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purpose only. Customers are responsible for testing and conforming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

Global Headquarters

Sydney, Australia

Bisley & Company
Level 12, Tower B Citadel Towers
799 Pacific Highway
Chatswood NSW 2067 Australia
Phone: +61 2 8905 4200
Fax: +61 2 8905 4238
Email: australia@bisley.biz

Jakarta, Indonesia

PT Bisindo Kencana
Puri Indah
Financial Tower
9th Floor, Unit 09 Jalan Puri
Lingkar Dalam Blok
T8 Jakarta Barat 11610
Indonesia
Phone: +6221 530 7287

Bangkok, Thailand

Bisley Asia (Thailand) Co. Ltd.
Mahatun Plaza Building 18th Floor
888/186 Ploenchit Road
Lumpini, Pathumwan
Bangkok 10330
Thailand
Phone: +66 0 2689 6396
Fax: +66 0 2689 6394

Kuala Lumpur, Malaysia

Bisley Asia (M) Sdn Bhd
Co. Reg. No.:199201002123
(233627-U)
Suite 20-01 & 20-02B,
Level 20, The Pinnacle,
Persiaran Lagoan, 47500
Bandar Sunway, Subang Jaya Selangor,
Malaysia
Tel: +603-56244287/4289
Fax: +603-56244201

Dubai, United Arab Emirates

Bisley Chemicals Trading LLC
1802 B2B Office Tower
Business Bay
PO Box 9298
Dubai United Arab Emirates
Phone: +971 4 3310088
+971 4 3310111
Fax: +971 4 3310099

USA and Canada

Bisley International LLC
1790 Hughes Landing Boulevard
Suite 400
The Woodlands 77380 TX USA
Phone: +1 (844) 424 7539
Emergency telephone number:
+1 855 237 5573
Email: international@bisley.biz

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