PRODUCT INFORMATION

OPTIFLOW® 790C CHOPPED STRANDS

FOR GYPSUM WET USED APPLICATIONS

DESCRIPTION

- **Optiflow® 790C** glass chopped strands (WUCS) are composed of Advantex® continuous strands, which have been manufactured with the Optiflow® 790C chemical size with two fiber lengths available
- The Advantex® glass combines the excellent mechanical and electrical properties of traditional E-Glass and E-CR Glass
- Advantex® glass is a boron/fluorine-free glass that reduces environmental footprint at the manufacturing site vs. Typical E-glass technology

BENEFITS[1]

- Enhances resistance to stress or load
- Stabilize the gypsum matrix under fire load (<0.1% surface cracking under fire load)[1]
- Improved stiffness for lightweight board (+28% flexural strength improvement)[1]
- Uniform glass dosage rate and dispersion[2]

[1] The values for glass reinforced vs. non glass reinforced wallboard were from a study by an external lab commissioned by Owens Corning for benchmark testing in 2011

[2] Owens Corning Chambéry lab, 1st half of 2014, M. Lory

APPLICATIONS

Typical application is gypsum wall board reinforcement, fireboards, standard and high strength impact boards.
OptiFlow® fibers are specifically designed for higher feed rate processes in "dry feed" applications.

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MECHANICAL PROPERTIES

Property	Advantex® Glass	Traditional E-glass
Softening Point (°C)	916°C	850 – 870°C

Product nomenclature Sizing – Diameter	Chop Length available (in)	Moisture content (%)			Solids Content (%)			Fiber Diameter (Microns)		
		LSL	Nom	USL	LSL	Nom	USL	LSL	Nom	USL
790C	½"	5.3	6.8	8.3	.14	.18	.22	14.4	16.0	17.6
790C HS	½"	5.3	6.8	8.3	0.20	0.24	0.30	14.4	16.0	17.6

TECHNICAL CHARACTERISTICS (nominal values)

The label will identify the material to be Advantex® glass fiber. All material is produced with equipment designed in Imperial Units (inches). The table below lists the Imperial and metric units with label identification.

Imperial Chop Length (inches)	Metric Chop Length
¼" ½"	6 mm 12 mm

PACKAGING

Several packaging types available including bulk bag (various weights to 1450 kg), bulk carton or individual bags. Contact Sales representative for exact packaging to match your need.

STORAGE

Optiflow® 790C products are packaged and sealed to retain moisture in storage. Product should be used in a FIFO basis.

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