



Ceramic Tile Pulley Lagging Full Product Data and Application Sheet

Description:

10mm thick (20mm x 20mm) studded 92% Alumina Ceramic Tile Strips are bonded directly onto a properly prepared head or tail pulley drum by means of a ceramic tile adhesive.

ADVANTAGES

- 01 The studded Ceramic Pulley Line Tiles provide exceptional grip on the conveyor belt.
- 02 They are extremely wear resistant, extending the life of costly conveyor belt pulley drums.
- 03 The ceramic tiles and epoxy are highly acid resistant and will not corrode or rust.
- 04 The Ceramic Pulley Line Tiles can be applied to almost any size pulley drum from 200mm diameter upwards. One size fits all application.
- 05 It is possible to line pulley drums on site, without removing the pulley from its installed position.



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TECHNICAL PROPERTIES

The figures that follow are typical properties achieved in laboratory test done at 20°C and at 50% Relative Humidity.

Alumina Weight Content (GB/T 6900-2005)	:	92%
Density (GB/T 2997-2000)	:	3.52
Young's Modulus	:	270 GPa
Shear Modulus	:	110 GPa
Flexural Strength	:	275 MPa
Hardness Vickers (HB 5172-1996)	:	9.0 GPa
Compressive Strength	:	1.77 GPa
Fracture Toughness	:	3.75 MPa
Thermal Expansion (400°C)	:	$8.30 \times 10^{-6}/^{\circ}\text{K}$
Maximum Use Temperature	:	1250 °C
Melting Point	:	1850 °C
Water Absorption	:	Nil
Gas Permeability	:	Nil
Specific Gravity	:	3.6



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Surface Preparation:

Clean the pulley surface to clean steel, do not burn. Grit-blast to SA 2 ½ with a 70µm blast profile where possible. Surface to be clean, dry and free from: rust; mill scale; oil; grease any other fatty or flaky contaminants.

Installation Guidelines:

These 92% Alumina Ceramic Pulley Line Tiles are supplied in 693mm long strips. Ensuring that the studded face of the tiles are exposed to grip the conveyor belt, bond these strips with a ceramic tile adhesive in straight lines across the properly prepared pulley face 10–15mm apart. After the tile adhesive has sufficiently cured fill the 10-15mm gaps in between the Ceramic Pulley Line Tiles with Supra-Fine HP Ceramic Wear-Resistant Epoxy to seal the pulley face and lock the Ceramic Pulley Line Tiles into position. Take care to apply the Epoxy thinner than the 10mm thickness of the Ceramic Pulley Line Tiles so that the Epoxy will sit lower than the tiles, this is to allow for water displacement.

Application training is made available by **Supraline SA** on request.

Health and Safety:

This shaped article is not a regulated chemical, as it does not release or otherwise result in exposure to a hazardous chemical under normal conditions of use.

If articles are cut or crushed, use appropriate dust respirators or keep total dust levels below the recommended levels.

Dispose of article according to standard landfill methods consistent with local by-laws.

Disclaimer:

The technical data contained herein is based on the results carried out in our laboratory and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact **Supraline SA** to verify that the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Supraline SA, expressly or implied, including fitness for a particular purpose.