



WearShield 45[®] Abrasion Resistant Lining

A flexible and tough solution for protecting heavy material processing equipment from the pounding of everyday use.

WearShield 45[®] takes a beating so your equipment doesn't have to.

IMTECH[®] WearShield 45[®] is a premium quality natural rubber compound with outstanding properties, including extreme resilience, strength, and resistance to abrasion, cutting and tearing.

In addition to its excellence performance in sliding and wet abrasion applications, WearShield 45[®] exhibits excellent wear resistance in the handling of minerals and ores where larger product particles are processed.

Elimination of Buildup

WearShield 45[®] is ideally suited for the lagging of non-drive conveyor pulleys and return rollers, eliminating the buildup of conveyor belt "carry back" of fines. The elastic properties of the rubber ensure that the pulley is self-cleaning, thereby assisting in the overall performance and efficiency of the conveyor system and associated equipment.

The outstanding physical properties of WearShield 45[®] provide the following benefits:

- ▶ Optimum performance and reliability of costly process equipment in demanding applications
- ▶ Excellent resistance to abrasion, cutting and overall wear
- ▶ Superior bonding characteristics
- ▶ High resilience
- ▶ Easily installed in a wide variety of applications
- ▶ Provides excellent noise reduction



Wash flumes in a sand and gravel processing facility.



WearShield 45[®] in a screen underflow pan application.

WearShield 45[®]

Product Specifications



Description

IMTECH[®] WearShield 45[®] is a highly abrasion-resistant product designed to be used as a protective shield in heavy duty material handling applications.

Typical Applications

WearShield 45[®] lining material is ideally suited for a wide variety of applications, such as: material washing and classifying, screen underpans, hoppers and bins, pipe elbows, vibrating feeders, launders, cyclones, and flotation cells.

Bonding System

IMTECH[®] WearShield 45[®] is supplied with a special bonding layer that facilitates installation and provides excellent adhesion when used in conjunction with IMTECH[®] STR[™] two-part cold bonding adhesive systems. Adhesive application instructions and surface preparation procedures are available upon request.

Product Availability

IMTECH[®] WearShield 45[®] Abrasion Resistant Lining is available in rolls in the following dimensions.

Product No.	Thickness	Roll Size
IMWS45125	1/8"	60" x 33'
IMWS45250	1/4"	60" x 33'
IMWS45375	3/8"	60" x 33'
IMWS45500	1/2"	60" x 33'
IMWS45750	3/4"	60" x 33'
IMWS451000	1"	60" x 33'
IMWS452000	2"	60" x 33'

Mean Physical Properties

Characteristic	Test Standard	WearShield 45
Color	—	Orange
Elastomer	—	NR/IR
Density (Specific Weight)	ASTM-D1817	1.05 g/cm ³
Hardness	ASTM-D2240	45 Shore A +/- 5
Resilience	—	65%
Tensile Strength	ASTM-D412 Die C	2,900 psi
Elongation at Break	ASTM-D412 Die C	550%
Tear Resistance	ASTM-D624 Die C	631 psi
Abrasion Resistance	DIN 53516	83 mm ³ @ 10n
Temperature Range	—	-40°C to +80°C -40°F to +178°F

Chemical Resistance

Chemical	WearShield 45 Resistance
Diluted acids and bases	Very good
Concentrated acids and bases	Good
Hydrocarbons	Poor
Solvents	Poor
Ozone	Fair

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