

armourTT™

Wear side only attached ceramic liner

Superior abrasion resistance with faster change-out and stronger hold.

armourTT™ wear liners combines the speed and certainty of Davies Taper-T™ wear side only attachment system with the ACE ceramic products for harsh bulk materials handling applications.

The ceramic material incorporated into armourTT™ provides the ability to last in the toughest of environments. armourTT™ is ideally suited for the extreme conditions associated with iron ore and other hard rock mining applications.

armourTT™ liners enable an 80% reduction in maintenance downtime and more than 50% reduction in labour costs for every wear liner change-out.

Key Features & Benefits

- Superior impact and abrasion resistance compared to Alumina Ceramic products
- 80% reduction in downtime for wear liner change-out
- 50% reduction in labour costs for wear liner change-out
- 300% higher strength attachment system enables up to 50% less bolt intensity
- Safer installation and removal (no hot works or rear access requirements)
- Increased production and uptime as a result of less downtime and improved wear characteristics
- Smooth ceramic wear face improves flow efficiency and less tendency for ore hang-up
- Resilience of rubber compound provides effective impact properties

Ceramic Features

Abrasion Resistance	★★★★
Impact Resistance	★★★★
Wear Life	★★★★
Shock Dampening	★★★
Sound Reduction	★★★

Applications

- ✓ Deflectors & Impact Plates
- ✓ Chutes
- ✓ Bins & Hoppers
- ✓ Skirt Liners
- ✓ Stackers & Reclaimers

Attachment Benefits

	Weld on Stud M16	Davies Taper-T Bolt M16 (12.9)	% Change
Max Tensile Strength (MPa)	~ 400	~ 1200	300% increase
Max Bolt Torque (Nm)	~ 110	~ 220	100% increase
Bolt-Stud Intensity (Bolts/m ²)	~ 40	~ 20	50% decrease





armourTT™ Specifications

armourTT™ ceramic wear liners are composed of Zirconia Toughened Alumina (ZTA) tiles. The liner tiles are moulded in a high tensile strength natural rubber matrix and mounted on steel backing plates fitted with the Davies Taper-T™ wear side only attachment system.

All rubber ceramic liners are hot vulcanised using specialised equipment that provides a bond strength that exceeds the tensile strength of the natural rubber matrix. As a result, the ceramics will remain in the rubber matrix, offering consistent wear protection across the entire life of the liner.

armourTT™ liners are nominally 63mm thick, including a 50mm high performance ceramic tile. Different thickness tiles are available upon request. AR-Bars can also be applied on leading edges for added impact resistance if required.

Ceramic Wear Material	Al²O₃/ZrO₂
Density (g/cm ³)	4.11
Porosity	<0.1
Hardness (HV30)	1825
Fracture Toughness K10 (MPa.m ^{0.5})	7.46
Rubber	Natural
Hardness	60 ± 5 Shore A
Elongation	400%
Resilience	65%



For more information on **armourTT™** contact us or visit: www.ace.davieswps.com



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