



Tiles are Mounted on Flexible Mesh Backing, Allowing Perfect Contouring to Trough Profile

Ceramic Liners

Introduction

For conveying extremely abrasive bulk materials, standard trough liners such as UHMW or abrasion-resistant steels (AR235 or AR400) often fall short in providing long-term protection. To address this challenge, KWS offers **Ceramic Trough Liners** engineered with **Alumina Silica Ceramic tiles** that deliver unmatched wear resistance and longevity. Designed for heavy-duty applications such as conveying coal, fly ash, or mineral fines, ceramic liners ensure maximum equipment uptime, reduced maintenance, and consistent material flow under the harshest conditions.

Features

Alumina Silica Ceramic Construction – Alumina Silica Ceramic tiles provide superior hardness and wear resistance. Tiles are bonded to the trough interior or a removable substrate, creating a smooth and durable wear surface.

Precision Installation with Mesh-Backed Tiles – Small-format tiles are mounted on flexible mesh backing, allowing perfect contouring to the trough profile.

High-Temperature and Corrosion Resistance – Ceramic liners withstand both thermal cycling and chemical exposure and are suitable for conveying bulk materials that are hot, corrosive, or chemically active.

Versatile Attachment Methods – Depending on the application, liners can be vacuum bonded, epoxy bonded or installed with a thin grout layer between the trough and liner to achieve a seamless internal surface.

Benefits

Exceptional Wear Life – Alumina Silica Ceramic liners last up to 10 times longer than UHMW or AR-steel liners, minimizing maintenance frequency and extending trough life in highly abrasive environments.

Reduced Maintenance Downtime – Long wear life prevents premature failures, eliminating costly repairs and unplanned shutdowns.

Enhanced Performance and Efficiency – Smooth ceramic surface reduces friction and improves bulk material flow.

Lower Lifecycle Cost – Although ceramic liners have a higher initial cost, extended lifespan and reduced maintenance make ceramic liners the most cost-effective option for demanding applications where reliability is critical.



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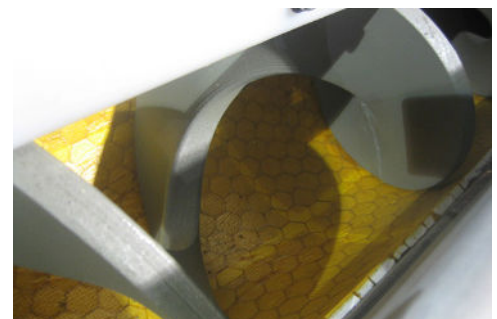
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Grout Layer Between Trough and Liner achieves Seamless Internal Surface



Smooth Ceramic Surface Reduces Friction and Improves Bulk Material Flow



Features & Benefits



Alumina Silica Ceramic Tiles Provide Superior Hardness and Wear Resistance



Extended Lifespan and Reduced Maintenance Make Ceramic Liners Cost-Effective for Demanding Applications



Alumina Silica Ceramic Liners Last Up to 10 Times Longer than UHMW or AR-Steel Liners



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