Which Abresist Kalenborn Material is Suitable for Your Application?

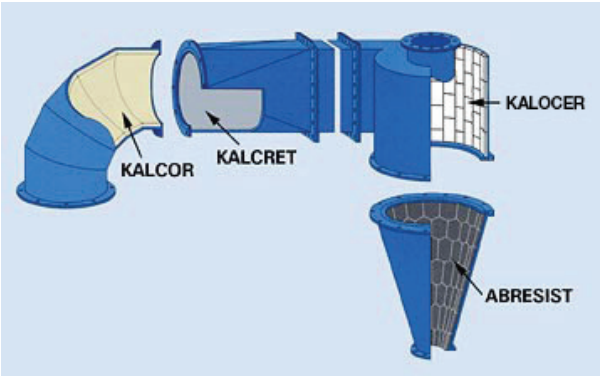
Wear Resistant Lining Suggestions for a Wide Range of Abrasion Problems

The information contained in the following chart is useful in many cases. However, due to the unpredictable nature of wear caused by abrasion, impact, corrosion and temperature, sometimes we have no strong recommendation or may recommend more than one wear resistant linings material.

In general though, the range of available materials and our past experience enables Abresist Kalenborn Corporation to assist you in choosing the best solution taking into account cost, service life, possible product contamination, connection difficulties, ease of installation, etc.

Which Lining Material for Which System Component?

No two abrasion problems are identical. The question of which lining material is most suitable and most economical for a particular application can only be answered when all parameters of the abrasion problem are known.



System Component	Operating Temperature	ABRESIST® Fused Cast Basalt	KALOCER® High Alumina Ceramics	KALCOR® Zirconium Corundum	KALCRET® Hard Compound
Bunkers/ Silos	Up to 350° C Above 350° C	X ---	X X	X X	X X
Chain Conveyors / Screw Troughs	Up to 350° C Above 350° C	X ---	X X	X X	X X
Mixers	---	X	X	---	---
Pulpers	---	X	---	---	---
Chutes/ Troughs	Up to 350° C Above 350° C	X ---	X X	X X	X X
Pipes/ Fittings	Up to 350° C Above 350° C	X ---	X X	X X	X X
Cyclones/ Separators	Up to 350° C Above 350° C	--- ---	X X	X X	--- ---
Fan Housings	Up to 350° C Above 350° C	--- ---	X X	X X	--- ---
Fan Blades	Up to 115° C	---	Kalbond	---	---

Influencing Factors of Friction-Induced Abrasion

- Grain Size
- Grain Shape
- Angle of Impact
- Fall Height
- Grain Distribution
- Velocity Flow Rate
- Chemical Composition
- Moisture Content
- Grain Hardness
- Grain Sharpness

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