Vulcabrix® A92 Rubber Vulcanised Ceramic

Overview

Bradken's Vulcabrix A92 ceramic is ideal for applications where severe abrasion resistance is required. Vulcabrix A92 consists of high quality ArmicTM A92 tiles bonded to a steel backing plate with natural rubber. Vulcabrix A92 offers better abrasion and impact resistance when compared to typical Alumina ceramics in the market.

Features

Along with excellent abrasion resistance Vulcabrix A92 ceramics are less than half the density of conventional metallic lining materials, allowing thicker wear materials to be used in weight critical applications. The light weight material also aids in manual handling of liners during installation.

As well as welded studs for quick and easy attachment, Vulcabrix A92 offers custom shapes, bevels and edge protection.

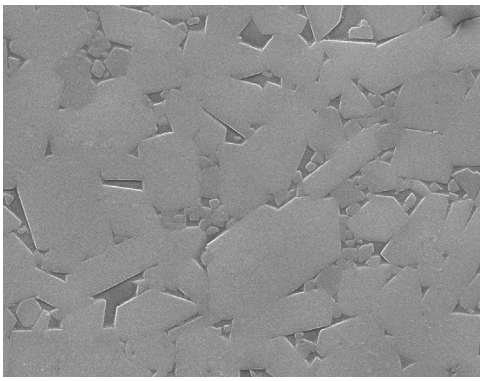
Manufacture

A high quality, 92% alumina powder is pressed into the shape of the finished tile before being sintered into a solid body. Sintering occurs at temperatures in the range of 1400-1600°C and binds the alumina particles to each other. These tiles are then bonded to the backing plate with rubber through a precise pressing and heating cycle. The liner can then be used to create a liner package perfect for severe abrasive wear applications involving low to moderate impact.

Typical Properties

Hardness	≥1080 HV_{20}			
Open Porosity	<0.1%			
Ceramic Density	3650 kg/m³			
Rubber Hardness	60 Shore A			
Tile Thickness	100 mm	50 mm	25 mm	
Liner Thickness	112 mm	63 mm	37 mm	32 mm

Vulcabrix A92 Press



Vulcabrix A92 Microstructure

Transfer Chute Application

Our Innovation. Your Advantage.

BRADKEN