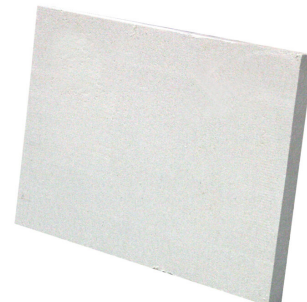


PANELS

3R4400HT



Description

The 3R4400HT boards are manufacture from low biopersistent superwool bulk fibers, refractory fillers and organic and inorganic binders. These boards offer an excellent thermal and physical performance in high-temperature applications. It is a good alternative to traditionnal solutions due to is high refractoriness and excellent non-wetting characteristics with molten aluminum. The 3R4400HT provides stability and resistance to most types of chemical attack. Thermal and physical properties are restored after drying.

Thin 3R4400HT boards are easily die-cut and all boards can be cut with a hacksaw blade allowing precise shapes to be made. It can be storage in low heat conditions. It has a very low thermal conductivity.

The superwool low biopersistent fibres with which the 3R4400HT board is made are not classified as carcinogenic.

The 3R4400HT boards offer the highest classification temperature up to 1300°C (2370°F). It is specially designed for application up to 1000°C (1830°F) requiring cycling resistance and high mechanical performances as in domestic boilers.

Applications

Good thermal shock resistance allows use in applications with large varaitions in temperature. The 3R4400HT can be used in direct contact with flame.

This board can be used in the folowing applications: molten aluminum contact, furnace, kiln and oven hot face linings, flue and chimney linings, insulation as backup to firebrick, insulating firebrick, refractory monolithics and for appliance and heat processing insulatiion.

Specifications

Technical data

Color

Tan

Density

360kg/m³ (22.46pcf)

Temperature	1300°C (2370°F)
Modulus of rupture	203psi
Compressive strength @10% deformation	43.5psi
Permanent linear shrinkage, 24 hrs 1300°C (2372°F)	1.5%
Thermal conductivity, W/mK (BTUin/hrft²°F) (ASTMC201) 200°C (392°F)	0.05 (0.35)
Thermal conductivity, W/mK (BTUin/hrft²°F) (ASTMC201) 400°C (752°F)	0.08 (0.56)
Thermal conductivity, W/mK (BTUin/hrft²°F) (ASTMC201) 600°C (1112°F)	0.11 (0.76)
Thermal conductivity, W/mK (BTUin/hrft²°F) (ASTMC201) 800°C (1472°F)	0.15 (1.04)
Thermal conductivity, W/mK (BTUin/hrft²°F) (ASTMC201) 1000°C (1832°F)	0.2 (1.39)
Thermal conductivity, W/mK (BTUin/hrft²°F) (ASTMC201) 1200°C (2192°F)	0.26 (1.80)

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.