Data sheet

Superwool® 332-E Paper

ENGLISH

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Description

Superwool papers are uniquely designed from Superwool bulk and organic binders. Superwool papers are specially processed to offer excellent performance in high-temperature applications. Superwool papers offer an alternative to traditional solutions due to its unique properties of high refractoriness and excellent non-wetting characteristics to applications requiring direct contact with molten aluminium.

Superwool 332-E paper is totally organic free and is ideally suited for mid-range temperatures found in the appliance, non-ferrous and automotive applications.

Type

Paper manufactured from high temperature insulation wool.

Classification temperature

From 1100°C (2012°F) to 1300°C (2372°F)

The maximum continuous use temperature depends on the application. Unaffected by most chemicals except strong alkalis, phosphoric acid and molybdenum. For further advise please contact your local Morgan Advanced Materials representative.

Typical applications

- Industrial and domestic appliance gasketing
- Non-Ferrous ingot mould liners
- Aluminium transfer system back-up insulation
- Parting medium in induction furnaces
- Automotive heat shields

Benefits

- Low biopersistence
- Excellent thermal insulating performance
- Thin, flexible high temperature insulation
- Immune to thermal shock
- Low heat storage
- Excellent tensile strength
- Low thermal conductivity
- Non-wetting to molten aluminium
- Superwool fibres are exonerated and are not classified as carcinogenic by IARC or under any national regulations on a global basis. They have no requirements for warning labels under GHS (Globally Harmonised System for the classification and labelling of chemicals). In Europe, Superwool fibres meet the requirements specified under NOTA Q of European Directive 67/548. All Superwool fibre products are therefore exempt from the classification and labelling regulation in Europe.

Data sheet

Superwool® 332-E Papers

Paper Product Name	Superwool Plus 332-E Paper
Fiber Class	AES
Physical Properties	
Manufacturing location	NA
Color	white
Continuous Use Temperature, °C (°F)	704 (1300)
Melting Temperature, °C (°F)	980 (1800)
Density, kg/m^3 (pcf)	176-224 (11-14)
Chemical Analysis, % weight basis after firing	
Silica, SiO2	65
Calcium oxide + Magnesium oxide, CaO + MgO	30
Other	5
Loss of Ignition, LOI	0.5 max
Thermal Conductivity, W/m•K (BTU•in/hr•ft^2), per ASTM C201	
260°C (500°F)	0.05 (0.35)
538°C (1000°F)	0.08 (0.53)

Availability and Packaging
North America packaging

Thickness, mm (in)	Width, mm (in)	Sq M/Roll (Sq Ft/Roll)	Mill Rolls, Linear M/Roll (Ft/Roll)
0.79 (1/32)	305 (12)	93 (1000)	-
0.79 (1/32)	610 (24)	93 (1000)	-
0.79 (1/32)	1220 (48)	93 (1000)	-
1.6 (1/16)	305 (12)	46.4 (500)	229 (750)

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