Superwool® XTRA Pyro-Bloc® Modules

Product Data Sheet

Product Description

Our market leading Pyro-Bloc Module, just got better. Introducing Superwool XTRA Pyro-Bloc Module manufactured from our patented Superwool XTRA composition and technology. Our newest innovation **does not form respirable crystalline silica** and is designed to offer **excellent performance in demanding high temperature applications**.

Superwool XTRA Pyro-Bloc Modules, with a classification temperature of 1450°C (2600°F) are available featuring the 'M' or 'T' type module hardware. The T-type module contains two stainless steel tubes mounted transversely through the module and remote from the hot face. T-type modules are anchored with an external, side-fix yoke. The M-type module hardware is designed with a central yoke embedded into the module, and is fitted onto pre-welded studs.

Please review the best option with your regional Morgan Advanced Materials Sales Representative and Applications Engineering team. Additionally, we recommend following the Superwool XTRA Design and Installation Guidelines for Superwool XTRA Pyro-Bloc Modules.

Features

- Excellent thermal stability results in reliable and consistent thermal insulating performances:
  - Immune to thermal shock
  - Binder or lubricant free
  - Thermal stability
  - Low heat storage
  - High erosion resistance, no damage up to 50 m/sec at 1250°C (2282°F)
- Does not form crystalline silica when exposed to high temperatures
- Excellent resistance to chemicals and pollutants, especially alkali metals
- Excellent tensile strength
- Good sound absorption

Applications

- Ethylene Cracking Furnace
- Ammonia Reformer
- Flare Stack
- Sintering Furnaces
- Coking Plant
- Galvanizing Furnaces
- Forge Furnaces

Environmental & Health Safety

Superwool low biopersistent fibres manufactured by Morgan Advanced Materials 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 Note Q of European Regulation EC/1272/2008 (on Classification, Labelling and Packaging of substances and mixtures). All Morgan Advanced Materials Superwool low biopersistent fibre products are therefore exonerated from classification and labelling as hazardous in Europe.

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Thermal Ceramics is a business of Morgan Advanced Materials

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Properties	Superwool XTRA Pyro-Bloc Modules
Colour	Green
Classification Temperature, °C (°F), EN 1094-1	1450 (2600)
Continuous Use Temperature, °C (°F)	1300 - 1325 (2372-2417)
Melting Temperature, °C (°F)	1650 (3000)
Density, kg/m³ (pcf), EN 1094-1	160, 192, 240 (10, 12, 15)
Chemical Analysis, %	
Alumina, Al_2O_3	32 - 38
Silica, SiO_2	27 - 33
Potassium Oxide, K2O	23 - 28
Zirconia, ZrO2	5 - 9
Magnesium Oxide, MgO	0.5 - 1.5

Thermal Conductivity, W/m•K, per ASTM C201			
Density, kg/m^3	160 (10)	192 (12)	240 (15)
200°C	0.09	0.08	0.08
400°C	0.14	0.11	0.11
600°C	0.22	0.17	0.17
800°C	0.33	0.28	0.25
1000°C	0.48	0.41	0.35
1200°C	0.67	0.58	0.48
Thermal Conductivity, BTU•in/hr•ft^2, per ASTM C201			
500°F	0.71	0.59	0.60
1000°F	1.31	1.05	1.03
1500°F	2.38	1.97	1.77
2000°F	3.92	3.37	2.83
2500°F	5.93	5.23	4.21

Whilst the values and application information in this datasheet are typical, they are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials - Thermal Ceramics.

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