



F-16[®]-S

Spray-on Mineral Wool System for Thermal and Acoustic Insulation

Description:

F-16[®]-S, mineral wool spray-on system, is a high performance granulated mineral wool and special binder applied using a state-of-the-art spraying machine. The system is applied on the substrate in specified/controlled thickness and through natural air drying it gains its strength providing seamless, thermal insulation and sound absorption characteristics.

Technology:

F-16[®]-S main raw materials are natural rocks and industrial slag melted under high temperature then subjected to high speed centrifugation and blowing dust oil followed by the granulation process to produce non-combustible granulated mineral wool.

Key functions:

F-16[®]-S is used for both industrial and civil buildings where thermal, sound or fire protection is needed. It is used in roofs, side walls of theaters, underground garage places, side walls and roof of engine rooms, between the heating and non-heating area of floors or walls, ventilation pipes, different casings in ships, cryogenic tanks, tunnels, etc.

F-16[®]-S can be spray-on a various substrates and surfaces such as steel, concrete, glass, wood, plaster boards, cement boards, etc.

Advantages

- Non-combustible system.
- Multifunctional integrated protection; thermal barrier, sound insulation and noise absorption.
- Integrally closed, seamless spray-applied system.
- Flexible/controlled applied thickness.
- Mechanized installation; easily operation, minimal material waste and labor cost.
- Anti-condensation; prevent corrosion metallic substrates.
- Complies with international standards.
- No asbestos contents.
- Smokeless fire protection up to 1000°C.
- Environmentally friendly.

Product Properties:

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| - Product type: | Spray-on mineral wool insulation. |
| - CAS: | 65997-17-3 |
| - Colour: | Off white/Gray |
| - Installation temp: | +4°C to +50°C. air and surface temperature during both application and drying out time. |
| - Fiber Diameter: | 3.5-5.0 µm |
| - Drying time (thickness:50mm): | 72h at 23°C, 50% RH |
| - Thermal Conductivity {w/(m·k)}: | $\lambda \leq 0.038$ |

- Sound absorption (NRC) -Thickness 50 mm : 0.95
- Heating shrinkage temperature (°C): ≥650
- Bulk Density: 100-120 kg/m³
- Density after application: 120-140 kg/m³.
- Chemical composition:

Substance	SiO ₂	Al ₂ O ₃	CaO	MgO	MnO	Fe ₂ O ₃
%	35-45	10-20	30-40	2-6	1-4	0.1-3

Standard Compliance and Certifications:

- ASTM testing :ASTM E136, ASTM E84, ASTM C518, ISO354
- China testing: GB/T26746, GB/T10295, GB8624, GB/T 20247
- ISO 9001, ISO 14001

Application Instructions:

Spraying process is being done using F16-Spraying equipment along with the spraying binder supplied by NewTime Foundation. The application rate can reach 1200 kg/h.

The relevant specific technical data ,See F-16®-S Mineral wool spraying product and application manual

Packaging:

Package Size : 900*600*210mm, Weight : 25kg/Bale

Safety Precautions:

Provide good ventilation. Avoid contact with skin or eyes. If you feel skin itching discomfort, use soapy water to clean the skin. If dust entered the eyes and can't wash it away, don't rub eyes, you should timely go to the hospital for medical treatment in the department of ophthalmology.

Wear protective gloves for comfort, with heavy dust development, wear protective glasses, wear loose fitting, long-sleeved, long-legged protective clothes, cover sensitive skin such as neck and wrists, after work is finished, shower and change cloths completely. Protective clothes must be washed separately and kept separated from other clothes.



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