

3MS.006

Mica-Based Adhesives



Summary

Overview

OVERVIEW

SAFETY

Resbond™ 907

Resbond™ 907GF

TECHNICAL DATA

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.

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Final Advanced Materials is collaborating with Cotronics to offer highly effective mica-based adhesive. These products are extremely resistant to flames and can be used as a adaptable waterproofing paste.

Areas of application:

- Research and development, electronics, metallurgical, industrial and nuclear applications, etc.

Applications:

- Ready-to-use bond for steel, iron, lead, ceramics, and metals in general.
- Ideal for industrial production

Advantages:

- Temperature: -130 °C to 1,650 °C
- Interesting electric properties
- Resistant

Safety

Do not inhale the powders! Wear a mask when handling in large quantities.

Avoid all contact with the eyes or skin.

In the event of an accident, quickly clean skin and eyes with water and consult a doctor.

We will provide you with the material safety data sheets.

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Resbond™ 907

Universal adhesive, flame resistant from -130 °C to +1,260 °C

The Resbond™ 907 is composed of mica and a ceramic binder. Its thin, regular or high viscosity can be specified when ordering.

Properties

- Resistant to solvents, electrical and flame resistant
- Breakdown voltage of 12 kV/mm
- Can be used from -130 °C to 1,260 °C.

Applications

- Industrial production
- Exhaust systems, motors, turbines, boilers
- Ideal for steel, iron, lead, ceramics and metals in general.

Implementation

- Texture: paste
- Easy to use
- Curing at room temperature in 24 hours
- Fast curing: 1 hour at 120 °C

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Mica-Based Adhesives



Resbond™ 907GF

High temperature sealant, 1,250 °C

The Resbond™ 907GF adhesive forms a mica-based creamy putty. It is packaged in a cartridge for simple and cost-effective application.

Applications

- Production of very thin and waterproof seals at high temperatures
- Construction of engines, turbines, boilers
- Application without preparation on steel, iron, lead, ceramics and metals in general.

Implementation

- Application in cartridge



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Mica-Based Adhesives



Technical Data

Property	Unit	907	907GF
Max. Operating Temperature	°C	1,260	1,250
Components		1	1
Appearance		Paste	Putty
Filler		Mica	Mica
Compressive Strength at 20 °C	MPa	24.1	10.3
Flexural Strength at 20 °C	MPa	8.6	-
Thermal Conductivity	W.m ⁻¹ .K ⁻¹	0.86	0.86
Thermal Expansion	10 ⁻⁶ .K ⁻¹	8.1	-
Dielectric Strength	kV/mm	11.7	5.6
Resistivity	Ω.m	10 ⁷	10 ⁷
Mix Ratio	Powder - Binder	-	-
Cure at Room Temperature		24 hrs	24 - 48 hrs
Fast Cure		1 hrs at 120 °C	1 hrs at 120-175 °C
Post-Cure		-	-