

CS 3210 Class B

LOW DENSITY SEALING COMPOUND

Technical Data Sheet

Description

CS 3210 Class B is low density designed for post-assembly sealing of aircraft structures. With a maximum specific gravity of 1.1, CS 3210 can offer substantial weight savings over conventional sealants.

- Two-part, manganese dioxide cured polysulfide
- Room temperature cure
- 1.1 density
- Excellent adhesion to a wide variety of coated and bare aircraft substrates
- Excellent flexibility and resistance to fuel, water, and other aerospace fluids
- Cured material has a service temperature range of -65°F to 250°F (-54°C to 121°C).
- Uncured CS 3210 Class B is a thixotropic (low sag) material easily applied with an extrusion gun or spatula.
- CS 3210 B-1/2 and B-2 are qualified to STM40-107.

For information on other qualifications or the availability of modified products, contact Sales.

The following technical information and data are typical for the material but should not be used for specification or acceptance purposes. Testing was performed in accordance with STM40-107.

Typical Performance Properties

Cured 14 days at 77°F (25°C) and 50% relative humidity

Specific gravity	1.1
Ultimate hardness	39A
% Nonvolatile material	90%, minimum
Tensile strength	180 psi (1.2 MPa)
% elongation	220%
Low temperature flexibility at -65°F (-54°C)	Pass
Heat resistance	Pass
Corrosion resistance	Pass
Repairability (per AS5127/1)	Pass
Peel strength, MIL-PRF-85582	12 pli, minimum (53 N/25mm)
Resistance to hydraulic oil	Pass

Typical Application Properties

At 77°F (25°C) and 50% relative humidity

Color	
Base	Gray
Curing agent	Black
Mixed	Black
Mix ratio	
By weight	100:12 (base/curing agent)
Base viscosity (Brookfield #7@ 2 rpm)	12,000 - 16,500 Poise (1200 - 1650 Pa-s)
Slump	< 0.2" (5 mm)

	Minimum application time	Extrusion rate at application time (g/min)	Tack-free time (hours)	Cure time to 35A (hours)
B-1/2	30 minutes	50 - 150	6 - 8	< 48
B-2	2 hours	25 - 50	6 - 8	< 72

Surface Preparation

To obtain good adhesion, surfaces must be free of all traces of oil, wax, grease, dirt or other contaminants. A progressive cleaning process is recommended. Use an appropriate solvent and lint-free clothes. Pour solvent on the cloth to keep the solvent supply clean. Clean a small area at a time and wipe the surface dry with a second clean cloth. See SAE AIR 4069 for additional information on surface preparation. For Socomore's full line of solvents and wipes used for aerospace sealant preparation, and their customer approvals, visit www.Socomore.com.

Storage

Unmixed CS 3210 Class B has a shelf life of at least 9 months from date of packaging when stored below 80°F or below in the original, unopened package. Refrigerated shipping is not required, but storage above this temperature typically affects application properties before performance properties.

Mixing Instructions

CS 3210 base and curing agents are matched and tested together; do not mix lots. Mix according to the indicated mix ratios; using the incorrect ratio can affect the sealant properties and voids the warranty. Do not thin the material with solvents. For additional information, see the FAQ on the Flamemaster website (www.flamemaster.com).

Curing

The application, tack-free, and cure times are based on the standard conditions of 77°F (25°C) and 50% relative humidity. For information on the effects of temperature and humidity, as well as information on accelerated curing, see the FAQ on the Flamemaster website (www.flamemaster.com).

Clean up

Cured aerospace sealants are difficult to remove. Cleaning tools and other surfaces is best done when the material has not yet cured. For fresh material and tool cleaning use an appropriate solvent and lint-free cloth. Once the material has cured, use an approved chemical and/or plastic scraper to remove the sealant. For Socomore's full line of solvents, wipes, chemical sealant removers (SkyRestore), plastic scrapers (SkyScraper), and their customer approvals, visit www.Socomore.com.

Packaging

CS 3210 Class B is available in injection kits and can kits. Bulk packaging and premix frozen (PMF) may be available; contact Sales.

Health and Safety

Before using this material, read and understand the Safety Data Sheet (SDS) as it includes information on health, physical, and environmental hazards, as well as handling precautions and first aid recommendations. SDSs are available upon request.

Emergency Contact Chemtrec 800-424-9300
Outside North America 703-527-3887
Keep out of the reach of children
For industrial use only

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This technical data sheet replaces and cancels the previous one.

The above details have been compiled to the best of our knowledge. They have, however, an indicative value only and we therefore make no warranties and assume no liability in connection with any use of this information, particularly if a third party's rights are affected by the use of our products. The above information has been compiled based upon tests carried out by SOCOMORE. All data is subject to change as SOCOMORE deems appropriate. The data given is not intended to substitute for any testing you must conduct in order to determine the suitability of the product for your particular purposes. Pictures are not contractual. Please check your local legislation applicable to the use of this product. Should you need any further information please contact us.