



INSTRUMENT GRADE POTTING COMPOUND CPE-1534

Potting Compound CPE-1534 is a highly filled high performance epoxy system featuring relatively low viscosity along with very low shrinkage stress, low coefficient of thermal expansion, high strength, high modulus of elasticity and excellent thermal shock resistance. This material is useful in applications requiring high dimensional stability and for low outgassing in end uses such as gyro motor stators, electromagnetic devices and precision electronic devices operating in extreme

CASS Adhesives' CPE-1534 is identical to Bacon Industries' Potting Compound 182A in chemical composition. Bacon Industries' Potting Compound 182A has been labeled, packaged, tested and certified for aerospace applications. CASS Adhesives' CPE-1534 is an industrial grade adhesive, however it may be used for aerospace applications if proper certifications have been issued and the material meets all of the manufacturer's specification requirements.

RECOMMENDED MIXING AND HANDLING PARAMETERS

Resin	CPE-1534
Activator	CPA-143
Parts by weight of activator required per hundred of resin	8.0
Work life at 160°F, minutes	50
Pot Life at 160°F, minutes	35
Viscosity at 160°F, poise	12
Recommended Cure, hr/°F	3/160 + 16/212

TYPICAL PROPERTIES OF CURED ADHESIVE:

Color	Black
Specific Gravity	1.79
Hardness, Shore D	90
Extrusion rate at 75°F and 60 psi (5cc syringe type 5SAKP1), grams/minutes	14.2
Lap Shear Strength to aluminum, psi	
at 75°F	2250
at 200°F	1790
at 300°F	850
at 400°F	495
Coefficient of Linear Thermal Expansion (TMA), 10 ⁻⁶ /°F from 77°F to 212°F	12.0
Glass Transition temperature (DSC), °F	271

(over)

INSTRUCTIONS FOR USE:

Loosen the cover on the can of CPE-1534 and heat in an oven to 160°F to 250°F. Mix the contents thoroughly each time before removing material. Place 100 parts by weight of compound into a glass or metal container and place 8.0 parts by weight of Activator CPA-143 into a container sealed with a screw cap. Heat each container and contents to the potting temperature, 135°F or 160°F as selected. Add the activator to the compound and mix well with a mechanical stirrer for five minutes while maintaining the temperature of the mixed compound. Vacuum degas for five minutes while maintaining temperature and proceed with the molding. Cure as indicated. For best stress relief, remove from the mold prior to the oven post-cure.

FOR INDUSTRIAL USE ONLY! WARNING!

These materials, including vapors, may cause injury to the skin following prolonged or repeated contact. Use with adequate ventilation. For health and safety information, refer to the Material Safety Data Sheets for these materials.

SHELF LIFE:

The shelf life of these materials is greater than two years when stored in unopened containers at an average temperature below 85°F.

AVAILABILITY:

Potting Compound CPE-1534 and Activator CPA-143 are available in bulk kits, as well as premixed and frozen in Freeze-Paks.