

Grade: ARMC-551-RN-MV

Manufacturer: Aremco Products, Inc.

Description: Aremco's high temperature graphite adhesives are formulated using both phenolic and silicate binders to bond carbon, carbon fiber composite (CFC), and graphite components, structures and tools used in a broad range of applications to 5400 °F (2985 °C)

Tradename		Graphi-Bond™
Major Constituent		Graphite
Color		Black
Temperature Limit, °F (°C)		5400 (2985)
No. Components		1
Viscosity, cP		60,000–90,000
Specific Gravity, g/cc		1.15–1.25
CTE, in/in/°F × 10 (°C)		4.1 (7.4)
Handling	Mix Ratio, powder:liquid	NA
	Thinner	Ethanol*
	Application Temperature, °F	40–90
	Storage Temperature, °F	30–75
	Shelf Life, months	6
Curing	Air Set, hrs	1–4
	Heat Cure, °F, hrs	265, 4 + 500, 2
Bond Type		99% Carbonaceous
Dielectric Strength, volts/mil @ RT		130
Lap-Shear Strength, psi @ RT Post-Cure		1425
Moisture Resistance		Excellent
Alkali Resistance		Good
Acid Resistance		Good

* Graphi-Bond™ 551-RN and 551-RN-MV can also be thinned with methanol and isopropyl alcohol