

# RT507

## TECHNICAL DATA BULLETIN

**GRADE: RT507**

**NEMA GRADE: G-7**

**U.L. LISTED: N**

**DESCRIPTION:** Grade RT507 has good electrical properties under humid conditions, superior heat resistance, and superior arc resistance. Typical applications include heating appliance insulation, welding equipment nozzle insulation, heat barriers and specialty bearing applications. RT507 also complies with MIL-I-24768/17, Type GSG and ASTM D709 Type IV Grade G-7.

### TYPICAL PROPERTIES

		UNITS	VALUE <sup>1</sup>		
			Specimen Tested (ID x OD)		
				0.75" x 1.00"	
PHYSICAL PROPERTIES					
Specific Gravity		-		1.95	
Rockwell Hardness		M Scale		85	
Moisture Absorption	Condition D <sub>1</sub> -24/23	%		0.31	
Tensile Strength	Condition A	psi		34,700	
Compressive Strength	Condition A	psi		9,300	
THERMAL PROPERTIES					
Temperature Index <sup>2</sup>					
Electrical / Mechanical		°C		170 / 220	
Flammability Rtg. (UL 94)	Condition A	Class		V-0	
ELECTRICAL PROPERTIES					
Electric Strength	Condition A	Volts/mil		195	
	Condition D-48/50	Volts/mil		120	

<sup>1</sup> All testing performed to ASTM D-348 unless otherwise indicated.

<sup>2</sup> NEMA LI-6: This temperature is a recommendation only, and based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

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Specification writers: Contact Norplex-Micarta for specification values before submission.