



ENGINEERING DATA SHEET

GRADE: SPAULDITE® XXX-15 TUBING

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Spaldite® Grade XXX-15 is a special high electrical paper base phenolic resin rolled-type designed for improved electrical properties and low moisture absorption. This special Spaldite® tubing grade exceeds the requirement of NEMA XXX, Military Specification MIC-P-79, Type PBE and Federal Specification L-P-509.

PROPERTY CHARACTERISTICS

PROPERTY	ASTM TEST METHOD	CONDITIONING & TYPE OF TEST	WALL THICKNESS (INCHES)	AVERAGE TYPICAL VALUES ¹		NEMA XXX VALUES	
				ENGLISH	SI	ENGLISH	SI
ELECTRICAL							
Dielectric Strength Parallel	D-348	D-48/50	.062	25 kV	25 kV	≥18 kV	≥18 kV
Dielectric Strength Perpendicular	D-348	A (S/T)	.062	465 V/M	18.3kV/mm	NR	NR
Dielectric Strength Perpendicular	D-348	D-48/50	.062	260 V/M	10.2kV/mm	≥225 V/M	≥8.9 kV/mm
MECHANICAL							
Tensile Strength	D-348	A	.062	13.0 ksi	89.6 MPa	NR	NR
Compressive Strength Axial	D-348	A	.062	18.5 ksi	127.6 MPa	≥13.0 ksi	≥89.6 MPa
PHYSICAL							
Density	D-348	A	.062	.045 lb/in ³	1.25 g/cm ³	≥.040 lb/in ³	≥1.12 g/cm ³
Water Absorption	D-348	D-24/23	.062	.95%	.95%	≤1.30%	≤1.30%

¹ Data shown is based on tube size 1.000" I.D. x 1.125" O.D.

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