



## ENGINEERING DATA SHEET

### GRADE: SPAULDITE® T-324-TR TUBING

Spaldite® Grade T-324-TR is a cotton paper base tube utilizing a special low odor phenolic resin developed for precision machining with low density and high polymerization. This special Spaldite® tubing grade is similar to NEMA XX and MIL-P-79 Type PBG and exceeds the requirements of these specifications.

Standard tube sizes available include inside diameters from .093 – 22.000 inches and outside diameters to 24.000 inches. Wall thickness from .020 – 1.500 inches are available depending on the inside diameter. 48-inch lengths are standard above .187 inch I.D. 36-inch lengths will be provided above .124 inch I.D. 18-inch lengths will be provided for I.D.'s .124 inches and below.

Typical values shown on the preliminary data sheet are offered as preliminary data subject to revision as more test data becomes available.

#### PROPERTY CHARACTERISTICS

PROPERTY	ASTM TEST METHOD	CONDITION & TYPE OF TEST	AVERAGE TYPICAL VALUES <sup>1</sup>	NEMA SPECIFICATION VALUES XX	MIL-P-79 PBG VALUES
<b>ELECTRICAL</b>					
Dielectric Strength (Parallel)	D-348	D-48/50 Short Time	80 KV	NR	NR
Dielectric Strength (Perp.)	D-348	A Short Time	600 V/mil	≥ 290 V/mil	≥ 290 V/mil
		D-48/50 Short Time	400 V/mil	NR	NR
<b>MECHANICAL</b>					
Tensile Strength (Axial)	D-348	A	14,500 psi	NR	NR
Compressive Strength (Axial)	D-348	A	13,500 psi	≥13,000 PSI	≥ 13,000 PSI
<b>PHYSICAL</b>					
Density	D-348	A	1.14 gm/cc	≥1.12 gm/cc	≥1.12 gm/cc
Water Absorption	D-348	E-1/105 + D-24/23	1.75 %	≤3.00%	≤ 3.00%
Acetone Extraction		A	≤2.5%	NR	NR

<sup>1</sup> Data shown is based on tube size 1.000 I.D. X 1.125 O.D. (.062 Wall)

*"To the best of our knowledge the information contained herein is accurate; however, Spaulding Composites Company, Inc. does not accept any liability regarding the accuracy or completeness of such information. Further, such information is based on standard base material and thus may change if the product ordered by purchaser requires further processing of base material by us and/or the purchaser. Purchaser has the sole responsibility in determining the suitability of any material described herein for the use contemplated and the processing of such material by purchaser."*