# **Coated Sleeve**





# **NU-SLEEVE** TII7-FR

NU-SLEEVE T117-FR is UL recognized as VW-1, selfextinguishing. It is comprised of specially formulated high temperature silicone rubber extruded onto premium electrical grade braided fiberglass sleeving.

The extrusion process results in a higher density coating that is more homogeneous, has better concentricity and yields longer continuous lengths than the typical liquid dipped products common to the industry.

NU-SLEEVE T117-FR is rated Class H by IEEE standards, acceptable for continuous service from -70°C through 200°C and operation at temperatures up to 315°C is tolerated for short durations.

It exceeds all requirements of UL Subject 224 for 200°C, 600-volt operation.

All our sites are ISO TS16949 and ISO 14001 certified

The coating maintains its electrical integrity, even under severe fire conditions by forming a nonconductive ash.

### Recommended use:

NU-SLEEVE T117-FR is used for insulation of leads and connections in electrical and electronic components (transformers, coils, relays, solenoids, etc,) where temperatures extremes from -70°C through 200°C are encountered. Silicone rubber coated fibreglass sleeving is the only flexible insulating material which remains useful for continuous service in ambient temperatures from -70°C through +200°C.

The NU-SLEEVE T117 range is also available in a standard (NU-SLEEVE T117-E) or in a high voltage (NU-SLEEVE T117-HV) versions.





# **Characteristics & Properties**

- **Colors:** black and white are standard colors. Other colors upon request: blue, gray-silver, green, orange, red, red oxide, yellow.
- Operating temperature range: -70°C / +200°C (-94°F / +392°F).
- Flammability (VW-1): flame retardant.
- Chemical resistance (coating properties): moisture, corona, ozone, radiation, compression set, fungus, most chemicals/solvents, weathering, flexure fatigue, heat degradation.
- **Specifications:** NEMA TS-1, Type 5; MIL-P-18057 (Grade A); MIL-I-3190/6 (Grade A); ASTM D372; UL File #E123956 and #E86619; CSA File #LR94072.

## **Dielectric grades**

NEMA Grades	Min. average breakdown	Min. individual breakdown	
NU-SLEEVE T117-FR A	7000∨	5000∨	
NU-SLEEVE T117-FR B	4000V	2500V	
NU-SLEEVE T117-FR C-1	2500∨	1500∨	
NU-SLEEVE T117-FR C-2	1500∨	800V	
NU-SLEEVE T117-FR C-3	no dielectric value guaranteed		

#### **Dimensions**

Designation	NEMA sizes	Nominal Ø		Minimum Ø	Maximum Ø		
		(inches)	(mm)	(inches)	(inches)		
NU-SLEEVE T117-FR 22	22	0.027	0.69	0.024	0.032		
NU-SLEEVE T117-FR 20	20	0.036	0.91	0.032	0.039		
NU-SLEEVE T117-FR 19	19	0.038	0.96	0.036	0.044		
NU-SLEEVE T117-FR 18	18	0.044	1.12	0.040	0.049		
NU-SLEEVE T117-FR 17	17	0.049	1.24	0.045	0.054		
NU-SLEEVE T117-FR 16	16	0.056	1.42	0.051	0.061		
NU-SLEEVE T117-FR 15	15	0.062	1.57	0.057	0.067		
NU-SLEEVE T117-FR 14	14	0.069	1.75	0.064	0.074		
NU-SLEEVE T117-FR 13	13	0.077	1.96	0.072	0.082		
NU-SLEEVE T117-FR 12	12	0.086	2.18	0.081	0.091		
NU-SLEEVE T117-FR 11	11	0.096	2.44	0.091	0.101		
NU-SLEEVE T117-FR 10	10	0.107	2.72	0.102	0.112		
NU-SLEEVE T117-FR 09	9	0.119	3.02	0.114	0.124		
NU-SLEEVE T117-FR 08	8	0.135	3.43	0.129	0.141		
NU-SLEEVE T117-FR 07	7	0.148	3.76	0.144	0.158		
NU-SLEEVE T117-FR 06	6	0.166	4.22	0.162	0.178		
NU-SLEEVE T117-FR 05	5	0.186	4.72	0.182	0.198		
NU-SLEEVE T117-FR 04	4	0.208	5.28	0.204	0.224		
NU-SLEEVE T117-FR 02	2	0.263	6.68	0.258	0.278		
NU-SLEEVE T117-FR 01	1	0.294	7.47	0.289	0.311		
NU-SLEEVE T117-FR 00	0	0.330	8.38	0.325	0.347		
Other sizes							
NU-SLEEVE T117-FR 3/8	3/8"	0.387	9.83	0.375	0.399		
NU-SLEEVE T117-FR 7/16	7/16"	0.450	11.43	0.438	0.462		
NU-SLEEVE T117-FR 1/2	1/2"	0.512	13.00	0.500	0.524		
NU-SLEEVE T117-FR 5/8	5/8"	0.640	16.26	0.625	0.655		
NU-SLEEVE T117-FR 3/4	3/4"	0.768	19.51	0.750	0.786		

### Packaging

NU-SLEEVE T117-FR is delivered in standard spools, bulk spools or in cut lengths upon request.

Data and photos for information only. Delfingen makes no warranties as to the accuracy or completeness of this information. Delfingen reserves the right to make changes in materials or processing without notification.

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