

**SILICONE RUBBER COATED BRAIDED FIBERGLASS SLEEVING**

NU-SLEEVE SG-240 conforms to MIL-I-3190/9 and exceeds the requirements of UL 1441, Table 14, as well as NEMA TF-1, Type 5 and ASTM-D372. Under the Component Program of Underwriters Laboratories, Grade A NU-SLEEVE SG-240 Silicone Rubber sleeving is recognized for 240°C, 600 volt service.

NU-SLEEVE SG-240 is suitable for industrial applications such as motors, generators, transformers and engines where superior dielectric protection at elevated temperatures is critical. In addition to automotive engine applications, NU-SLEEVE SG-240 is well suited to aircraft and other aeronautics applications because of its wide operating temperature range, excellent chemical resistance, flammability resistance and light weight.

**SUMMARY:**

- Class 240 Insulation.
- UL Grade A Electrical Component.
- UL VW-1 flammability rated – UL File E93101.
- Applicable Specifications:
  - NEMA TF-1 Type 5
  - UL 1441 VW-1
  - ASTM D372
  - MIL-I-3190/9, QPL-3190: Grade A (8000V)
- RoHS and WEEE compliant.
- Low Temperature Brittle Point -80°C
- Available Sizes: AWG #24 – 2”
- Packaging: Standard Spools, Bulk Spools, Cut to length ( $\frac{1}{2}$ ” diameter and under). Above 1” supplied in 3’ lengths.
- Color: Red Iron Oxide .

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NEMA Size	Nominal Diameter (inches)	Nominal Diameter (mm)	Delfingen Part No. (See Notes)	Minimum Diameter (inches)	Maximum Diameter (inches)
24	0.024	0.61	SG2400024RO	0.020	0.027
22	0.029	0.74	SG2400022RO	0.025	0.032
20	0.036	0.91	SG2400020RO	0.032	0.039
18	0.044	1.12	SG2400018RO	0.040	0.049
17	0.049	1.24	SG2400017RO	0.045	0.054
16	0.056	1.42	SG2400016RO	0.051	0.061
15	0.062	1.57	SG2400015RO	0.057	0.067
14	0.069	1.75	SG2400014RO	0.064	0.074
13	0.077	1.96	SG2400013RO	0.072	0.082
12	0.086	2.18	SG2400012RO	0.081	0.091
11	0.096	2.44	SG2400011RO	0.091	0.101
10	0.107	2.72	SG2400010RO	0.102	0.112
9	0.119	3.02	SG2400009RO	0.114	0.124
8	0.135	3.43	SG2400008RO	0.129	0.141
7	0.148	3.76	SG2400007RO	0.144	0.158
6	0.166	4.22	SG2400006RO	0.162	0.178
5	0.186	4.72	SG2400005RO	0.182	0.198
4	0.208	5.28	SG2400004RO	0.204	0.224
3	0.234	5.94	SG2400003RO	0.229	0.249
2	0.263	6.68	SG2400002RO	0.258	0.278
1	0.294	7.47	SG2400001RO	0.289	0.311
5/16"	0.313	7.95	SG2400312RO	0.313	0.334
0	0.330	8.38	SG2400000RO	0.325	0.347
3/8"	0.387	9.83	SG2400375RO	0.375	0.399
7/16"	0.450	11.43	SG2400437RO	0.438	0.462
1/2"	0.512	13.00	SG2400500RO	0.500	0.524
5/8"	0.640	16.26	SG2400625RO	0.625	0.655
3/4"	0.768	19.51	SG2400750RO	0.750	0.786
7/8"	0.893	22.68	SG2400875RO	0.875	0.911
1"	1.018	25.86	SG2401000RO	1.000	1.036
1 1/8"	1.144	29.06	SG2401125RO	1.130	1.161
1 1/4"	1.260	31.75	SG2401250RO	1.250	1.286
1 1/2"	1.518	38.56	SG2401500RO	1.500	1.536

**Note:** The last 2 characters in the part number are reserved for color identification. RO=Red Oxide. Contact customer service for other colors.

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<b>Property</b>	<b>Procedure</b>	<b>Performance</b>
<b><u>Physical</u></b>		
Tensile Strength, Coating	ASTM-D412	1600 psi
Elongation, Coating	ASTM-D412	800% @ 20°C
Hardness, Coating	ASTM-D2240	54 (Shore A)
Flexibility and toughness, Coating	UL 1441	Passes
<b><u>Chemical</u></b>		
Oil and Solvent Resistance	MIL-I-3190/9	Passes
Water Vapor Resistance	MIL-I-3190/9	Passes
Resistance to Acids and Alkalies	NA	Excellent
UV Resistance	NA	No Effect
Compatibility	UL 1446	Good – Note 1
<b><u>Electrical</u></b>		
Dielectric Strength 48/23/50	NEMA TF-1	8000v min. ave, 6000v individual
Dielectric Strength 96/23/96	NEMA TF-1	80% of Original Value
Hydrolytic Stability - Note 2	MIL-I-3190/9	Passes, no disintegration, cracks
<b><u>Thermal</u></b>		
Thermal Endurance	MIL-I-3190/9 UL 1441	Class 240°C (S)
Brittleness temperature	ASTM-D350	-80°C
Flame Resistance	UL 1441 ASTM-D350 (Method A) NEMA TF-1 MIL-I-3190/9 (Method A)	Passes VW-1 Passes Passes Passes
Pushback	MIL-I-3190/9	Passes – No cracks or ruptures.
<b>Notes:</b>		
1. Compatible with most potting compounds and varnishes.		
2. After 336 hours @ 70°C over constant water reflu x.		