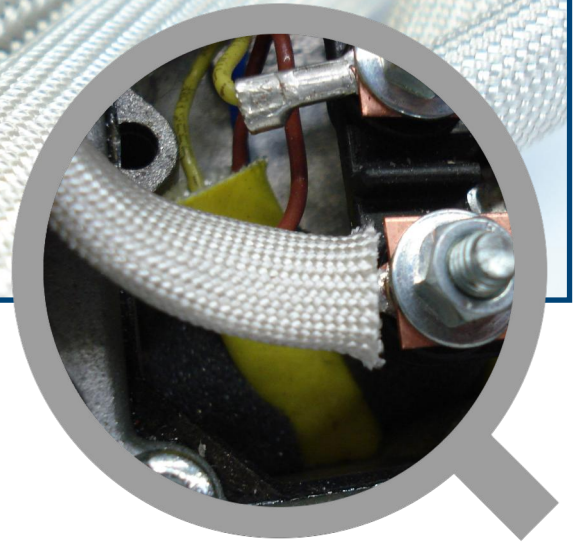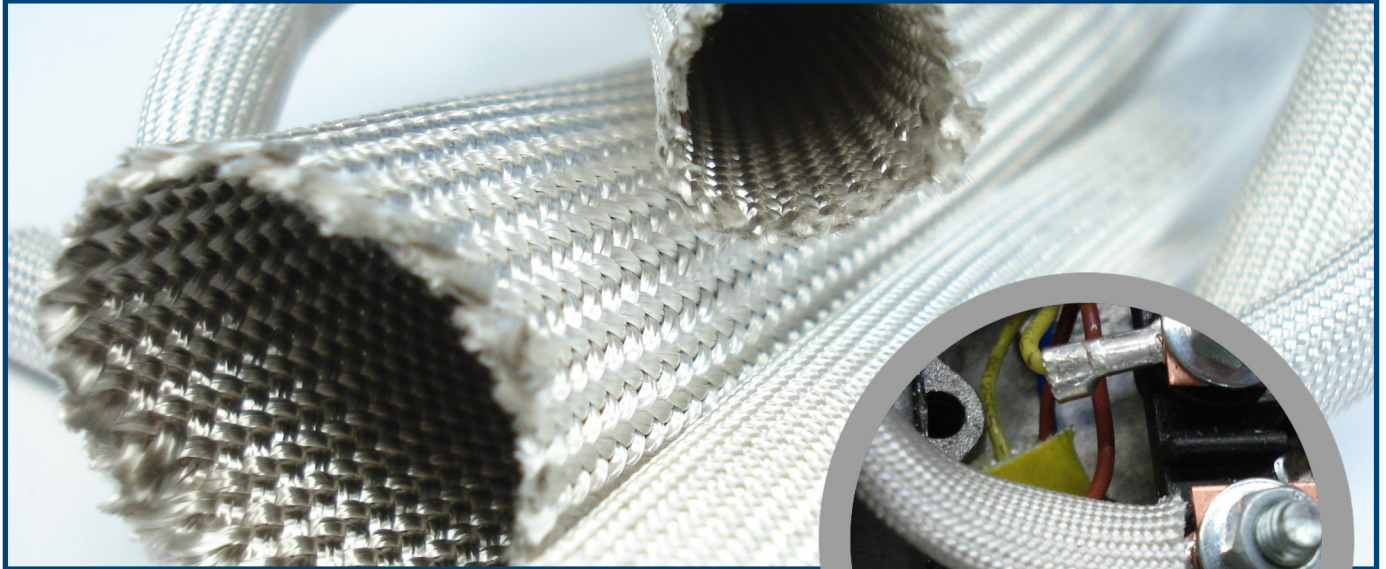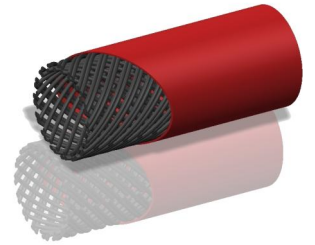# Fiberglass Sleeve

NU-FLEX HT

Delfingen NU-FLEX HT is a tightly woven, flexible, continuous filament electrical grade 100% fiberglass braid heat treated to remove all organic contaminants and to set the glass braid for end-fray resistance.

NU-FLEX HT is the most economical choice for thermal insulation in applications where temperatures run as high as 650°C. NU-FLEX HT provides abrasion resistance with high flexibility.

NU-FLEX HT products are made in standard wall or heavy wall constructions: **NU-FLEX HT-1220** and **NU-FLEX HT-1232** (.032'' wall - 0.81mm).

NU-FLEX HT is used in high temperature, low voltage applications and wherever severe,

repeated flexing or temperature extremes prohibit the use of other materials.

Its expandability and flexibility enables it to slip over irregular shapes and electrical connections to provide effective thermal, mechanical and electrical protection.

Typical applications include: insulation of leads in carbon brushes, toasters, irons, coffee makers and other small heating appliances; coil insulation on rotating equipment; thermal and mechanical protection of insulated wires and sensor leads in consumer, commercial, and industrial appliances and lighting fixtures, outer coverings for resin impregnated circuitry; double insulation for high reliability circuitry.

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Nu-Flex HT

Characteristics & Properties

- **Colors:** natural (silver-gray) only.
- **Specifications:** UL VW-1 recognized insulation (File#E80713); ASTM D350/372; MIL-Y-1140H; NEMA TF-2.
- **Insulation class:** C class rated at 240°C (464°F).

Physical properties	Value
Operating temperature range	-59°C / 648°C (-74°F / 1198°F)
Dieletric breakdown	grade C-3 insulation (no dielectric value guaranteed)
Volume resistivity	10^{14} ohm-cm @ 72°F (22°C) and 500 Volts DC
Cut-through resistance	excellent
Oil resistance	no swelling or disintegration
Fungus resistance	inert (requires no fungicide additives)
Rate of burning	meets UL VW-1 flammability rating

Dimensions

Designation (standard wall)*	NEMA sizes	Nominal Ø (inches)	Nominal Ø (mm)	Minimum Ø (inches)	Maximum Ø (inches)
NU-FLEX HT-1220 24	24	0.024	0.61	0.020	0.027
NU-FLEX HT-1220 22	22	0.029	0.74	0.025	0.032
NU-FLEX HT-1220 20	20	0.036	0.91	0.032	0.039
NU-FLEX HT-1220 19	19	0.038	0.96	0.036	0.044
NU-FLEX HT-1220 18	18	0.044	1.12	0.040	0.049
NU-FLEX HT-1220 17	17	0.049	1.24	0.045	0.054
NU-FLEX HT-1220 16	16	0.056	1.42	0.051	0.061
NU-FLEX HT-1220 15	15	0.062	1.57	0.057	0.067
NU-FLEX HT-1220 14	14	0.069	1.75	0.064	0.074
NU-FLEX HT-1220 13	13	0.077	1.96	0.072	0.082
NU-FLEX HT-1220 12	12	0.086	2.18	0.081	0.091
NU-FLEX HT-1220 11	11	0.096	2.44	0.091	0.101
NU-FLEX HT-1220 10	10	0.107	2.72	0.102	0.112
NU-FLEX HT-1220 09	9	0.119	3.02	0.114	0.124
NU-FLEX HT-1220 08	8	0.135	3.43	0.129	0.141
NU-FLEX HT-1220 07	7	0.148	3.76	0.144	0.158
NU-FLEX HT-1220 06	6	0.166	4.22	0.162	0.178
NU-FLEX HT-1220 05	5	0.186	4.72	0.182	0.198
NU-FLEX HT-1220 04	4	0.208	5.28	0.204	0.224
NU-FLEX HT-1220 03	3	0.234	5.94	0.229	0.249
NU-FLEX HT-1220 02	2	0.263	6.68	0.258	0.278
NU-FLEX HT-1220 01	1	0.294	7.47	0.289	0.311
NU-FLEX HT-1220 00	0	0.330	8.38	0.325	0.347
Other Sizes					
NU-FLEX HT-1220 5/16	5/16"	0.313	7.95	0.313	0.334
NU-FLEX HT-1220 3/8	3/8"	0.387	9.83	0.375	0.399
NU-FLEX HT-1220 7/16	7/16"	0.450	11.43	0.438	0.462
NU-FLEX HT-1220 1/2	1/2"	0.512	13.00	0.500	0.524
NU-FLEX HT-1220 5/8	5/8"	0.640	16.26	0.625	0.655
NU-FLEX HT-1220 3/4	3/4"	0.768	19.51	0.750	0.786
NU-FLEX HT-1220 7/8	7/8"	0.893	22.68	0.875X	0.991
NU-FLEX HT-1220 1	1"	1.018	25.86	1.000	1.036
NU-FLEX HT-1220 1 1/8	1 1/8"	1.143	29.03	1.125	1.161

Approvals
Ford (via Tier-1).

*Heavy wall designation:

NU-FLEX HT-1232 heavy wall is available in sizes from 16 to 3/8".
On the designation column, replace HT-1220 by HT-1232.

Packaging
NU-FLEX HT 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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