

HEAT-SHRINKABLE TUBING

HTS-AN25

SUMITUBE[®], Made of Elastomer, Thin-walled, Flexible, Diesel resistant, High Temperature



Highlights

- Operating temperature - 75 °C to 150 °C
- Diesel-, abrasion-, and fluid resistant
- Excellent mechanical and electrical protection
- Printed
- Shrink rate 2:1
- Shrink temperature: 170 °C
- RoHS and REACH conform
- Approvals: VG 95343 T05D, VG95343-14, VG95343-2, VDE File 088218, SAE-AS23053/16

Dimensions

Art.-No.	Before Shrinkage (mm)		After Shrinkage (mm)		Standard Packaging	
	Inch	Inner Diameter (min)	Inner Diameter (max.)	Wall Thickness (nom.)	Coil (m)	Box (m)
Z87111	1/8	3.20	1.60	0.60 - 0.90	150	600
Z87112	3/16	4.80	2.40	0.65 - 1.05	60	300
Z87113	1/4	6.40	3.20	0.70 - 1.10	60	300
Z87114	3/8	9.50	4.75	0.80 - 1.20	60	180
Z87115	1/2	12.70	6.4	0.90 - 1.50	60	180
Z87116	3/4	19.10	9.5	1.10 - 1.80	30	90
Z87117	1	25.40	12.7	1.35 - 2.25	30	90
Z87118	1-1/2	38.00	19.1	1.90 - 2.90	30	60
Z87119	2	51.00	25.4	2.30 - 3.30	30	60
Z87120	3	76.00	38.1	2.60 - 3.80	15	15
Z87121	4	102.00	50.8	2.90 - 4.30	10	10

Technical characteristics

Property	Test	Inspection requirements	Typical values
Physical	Longitudinal change	VG 95343-5, 3% to -10%	Passed
	Tensile strength	VG 95343-5, min. 12 MPa	≥ 19 MPa
	Elongation at break	VG 95343-5, min. 350%	≥ 450%
	Secant modulus	VG 95343-5, 15 to 35 MPa	22 MPa
	Abrasion resistance	VG 95343-5, Procedure A & B	Passed
Thermal	Operating temperature	SUMITOMO Standard	-75 °C to 150 °C
	Min. Shrink temperature	For complete shrinkage	170 °C

Created by: VS 20.11.2020

We reserve the right to make product changes.

**RELIABLE, FLEXIBLE,
CUSTOMER-ORIENTED**

HEINRICH THULESIUS GMBH & CO. KG
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**SUMITOMO
ELECTRIC
GROUP**

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Property	Test	Inspection requirements	Typical values
Thermal	Shrinkage begins at		100 °C
	Heat shock (215 °C x 4 h)	VG 95343-5, no cracking, flowing or dripping	Passed
	Elongation after heat shock (215 °C x 4 h)	VG 95343-5, min. 200%	≥ 300%
	Tensile strength after heat shock (215 °C x 4 h)	VG 95343-5, min. 8 MPa	≥ 10 MPa
	Low temperature flexibility (-75 °C x 4 h)	VG 95343-5, no cracks	Passed
	Elongation after thermal aging (160 °C x 168 h)	VG 95343-5, min. 200%	≥ 290%
	Tensile strength after thermal aging (160 °C x 168 h)	VG 95343-5, min. 10 MPa	≥ 11 MPa
	Elongation after copper corrosion test (135 °C x 168 h)	VG 95343-5, min. 200%	≥ 240%
Chemical	Long term aging test	VG 95343-5, min. 75% (Elongation)	≥ 120%
	Flammability	VG 95343-5, Procedure A	Passed
	Water absorption	VG 95343-5, max. 2,0%	≤ 1,3%
	Fluid resistance (incl. Diesel fuel)	VG 95343-5	
	- Change in mass after fluid test	VG 95343-5, max. 20%	≤ 5%
	- Tensile strength after fluid test	VG 95343-5, min. 12 MPa	≥ 16 MPa
	- Elongation after fluid test	VG 95343-5, min. 300%	≥ 350%
	Fungus resistance	VG 95343-5 (ISO 846 A+B), Zgf: Min. 12 MPa / D: Min. 350%	Passed
Electrical	Sea water resistance (50 °C x 168 h)	VG 95343-5, Zgf: Min. 12 MPa / D: Min. 350%	Passed
	Ozone resistance	NF F 00-608, no cracking or sweating	Passed
Electrical	Volume resistance	VG 95343-5, min. 10 ¹¹ Ω/cm	≥ 3,5 x 10 ¹¹ Ω/cm
	Dielectric strength	VG 95343-5, min. 8 kV/mm	≥ 20 kV/mm

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