SUMITOMO ELECTRIC Schrumpf-Produkte GmbH

Technical datasheet
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Sumitube® AN25

Elastomer, 2:1
Operating Temperature: -75 up to 150°C

Surface: Matt
Marking: SUMITOMO-SUMITUBE AN25(Size)

VG 95343 T 05 D "VG-approved" (VDE V 0341-9005)
VG 95343-14
VG 95343-2
VDE-File-No. 088218
SAE-AMS-DTL-23053/16

Dimensions

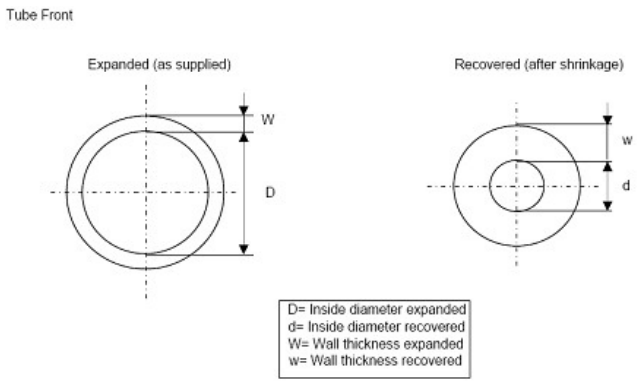
BEFORE SHRINKAGE		AFTER SHRINKAGE		DELIVERY UNITS	
Inner diameter (EID) min.		Inner diameter (RID) max.	Wall thickness (RWT) min-max	Unit quantity	Box quantity
[type]	[mm]	[mm]	[mm]	[m]	[m]
1/8	3,20	1,60	0,60 - 0,90	150	600
3/16	4,80	2,40	0,65 - 1,05	60	300
1/4	6,40	3,20	0,70 - 1,10	60	300
3/8	9,50	4,80	0,80 - 1,20	60	180
1/2	12,7	6,40	0,90 - 1,50	60	180
3/4	19,0	9,50	1,10 - 1,80	30	90
1	25,4	12,7	1,35 - 2,25	30	90
1-1/2	38,0	19,0	1,90 - 2,90	30	60
2	51,0	25,4	2,30 - 3,30	30	60
3	76,0	38,0	2,60 - 3,80	15	15
4	102,0	51,0	2,90 - 4,30	10	10

Colours & Technical drawing

STANDARD COLOURS	
black	

SPECIAL COLOURS	
upon request	

TECHNICAL DRAWING



SUMITOMO-G-01082014

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Sumitube® AN25

Elastomer, 2:1

Technical properties

PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Longitudinal Change	VG 95343-5	3% to -10%	Pass
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	Pass

THERMAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Operating Temperature	VG 95343-5	-75 up to 150°C	-75 up to 150°C
Min. Shrink Temperature	Shrink curve	full recovery	170°C
Shrinking starts at	Shrink curve		100°C
Heat Shock (215°C x 4h)	VG 95343-5	no crack, flowing or dripping	Pass
Elongation after heat shock (215°C x 4h)	VG 95343-5	Min. 200%	≥ 300%
Tensile strength after heat shock (215°C x 4h)	VG 95343-5	Min. 8 MPa	≥ 10 MPa
Low temperature flexibility (-75°C x 4h)	VG 95343-5	no cracking	Pass
Elongation after heat ageing (160°C x 168h)	VG 95343-5	Min. 200%	≥ 290%
Tensile strength after heat ageing (160°C x 168h)	VG 95343-5	Min. 10 MPa	≥ 11 MPa
Elongation after copper compatibility (135°C x 168h)	VG 95343-5	Min. 200%	≥ 240%
Long term heat ageing test	VG 95343-5	Min. 75% (Elongation)	≥ 120%

CHEMICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Flammability	VG 95343-5	Procedure A	Pass
Water Absorption	VG 95343-5	Max. 2,0%	≤ 1,3%
Fluid Resistance (all VG fluids including Diesel fuel)	VG 95343-5		
- Alteration in weight after fluid test	VG 95343-5	Max. 10%	≤ 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)	T.S: Min. 12 MPa / E: Min. 350%	Pass
Resistance to sea water (50°C x 168h)	VG 95343-5	T.S: Min. 12 MPa / E: Min. 350%	Pass
Ozone resistance	NF F 00-608	No cracking or sweating	Pass

ELECTRICAL PROPERTIES			
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL VALUE
Volume Resistivity	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