

**Part Number** DWT2000

**Header** DWT2000 Mil Spec Adhesive Lined Dual Wall Heat Shrink

**Description** Thermosleeve-USA's DWT2000 is an adhesive-lined, semi rigid, flame-retardant cross-linked polyolefin heat-shrinkable tubing specifically designed to meet automotive industry requirements. The typical electrical applications include repairing damaged cables, sealing connectors and components, covering wire bundles and harness breakouts.

When heated to a minimum of 100 degree C (212 degrees F), DWT2000 will begin to shrink and the adhesive will flow freely around the substrate. The adhesive will bond to a variety of materials including metals, plastics and rubbers. Once cooled, the adhesive will solidify, remain flexible and provide an excellent barrier against moisture.

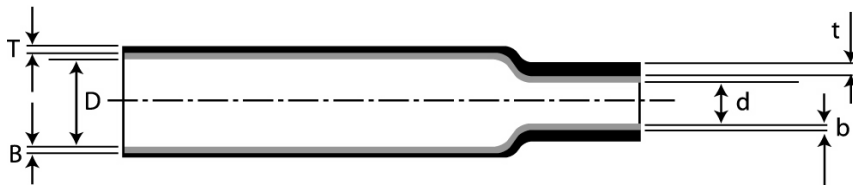
**Agency Approval & Compliance** ROHS, REACH, VW1

**Application** Specifically designed to meet the demanding requirements of OEM automakers, DWT2000 can also be used in a variety of applications where environmental issues are a concern. DWT2000 can effectively protect metal pipes and fuel lines against any kind of damage caused by friction and corrosion, improving vehicle safety. The adhesive lining provides an excellent barrier to moisture and is good choice of material for repairing cables, covering components and other electronic/electrical connections where harsh weather conditions are present or are a concern.

**Shrink Ratio and Operating Temperature** DWT2000 has a shrink ratio of 2:1. When fully recovered, the 2:1 material will shrink to fifty percent (50%) of its original supplied diameter. The tubing's wall thickness will also change proportionally to the degree of recovery.

Operating temperature range is from -40 degree C to 125 degrees C (-40 degrees F to 257 degrees F)

**Standard Sizes and Dimension**



Size (IN)		As Supplied		After Recovery		
(mm)	(inch)	Inside Diameter (D)	Total Wall Thickness (T+B)	Pipe Size (d)	Total Wall Thickness (t+b)	Adhesive Wall-thickness (b)
Φ6.0 (1.5X)	1/4"	6.5±0.5	0.75±0.15	4.76	1.00±0.10	0.05+0.05
Φ8.0 (1.5X)	5/16"	8.5±0.5	0.75±0.15	6.35	1.00±0.10	0.05+0.05
Φ10.0 (1.5X)	3/8"	10.5±0.5	0.75±0.15	8.00	1.00±0.10	0.05+0.05
Φ12.5 (1.5X)	1/2"	13.0±0.5	0.75±0.15	10.00	1.00±0.10	0.05+0.05
Φ14.0 (4X)	9/16"	14.5±0.5	0.35±0.15	4.85	1.00±0.10	0.05+0.05

Standard color: black, other colors are also available. Please refer the pipe diameters to make the order.

**Specifications**

Items	Specifications
Shrink Temperature (°C)	110°C ~ 150°C
Temperature Range (°C)	-40°C ~ 125°C

Radial Shrinking Ratio (%)	≥66
Tensile Strength (MPa)	12MPa
Ultimate Elongation (%)	400
Aging in Circulating-air Oven (175.0±2°C, 168hrs)	No cracking, dripping, flowing
Tensile Strength (MPa) - After Aging	≥12
Ultimate Elongation (%) - After Aging	≥270
Dielectric Strength -After Aging	≥15.8kv/mm ± 1.0 °C
Eccentricity	20%
Deformation Resistance	50%(min)
Drop impact resistance	No cracking
Cold resistance (-35°C 1hr)	No cracking
Stress cracking resistance (50°C 24 hrs)	No cracking
Fluid resistance	No cracking after 72 hrs at 25°C
	Sulfuric acid (1.28 S.G.), no cracking
	Sodium hydroxide (0.1N), no cracking
	Automotive Brake fluid, no cracking
	Unleaded gasoline, no cracking

**Availability** Four-foot lengths, master reels and cut pieces

**Important Notice** All information contained in this data sheet is believed to be reliable and accurate. It is advised however that the end user of this material evaluate the suitability of the product for their specific application.

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