



J. M. Engineering Co.

A collage of images related to engineering and industry, including a blue and white airplane, various colored heat shrink sleeves, rolls of yellow and green sleeves, a circuit board, and wind turbines. A yellow square is positioned behind the 'PRODUCTS' text.

# PRODUCTS

A light gray world map is visible in the background of the central section.

## Heat Shrink Sleeves

### Dual Wall Heat Shrink Sleeves



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# SBRS-(2X)QF

Dual Wall Adhesive-Lined Heat-Shrink Tubing for Automotive Oil-pipe Protection

SBRS-(2X)QF Adhesive-lined Heat-shrinkable Tubing is specially designed for Automotive Oil-pipe Protection, providing preventive protection to break line, fuel line, hydraulic line and other metal pipeline which is subject to bending or clamping during manufacturing, installation or operation.



## Features

- Semi-rigid outer jacket for mechanical damage prevention
- Adhesive inner layer for sealing against moisture and corrosion
- Easy installation
- High strength bonding, the adhesive layer is hard to be peeled off from pipeline
- Continuous operating temperature: -45 - 105
- Fully shrink temperature: 125

## Dimensions

Size mm	Expanded Internal Diameter Min(mm)	After Recovery			Standard Package Spool Length M/spool
		Internal Diameter Max(mm)	Total Wall Thickness Nom(mm)	Adhesive Thickness Nom(mm)	
6.0	6	4.5	1.20±0.20	0.20±0.05	300
8.0	8	6.1	1.30±0.20	0.20±0.05	200
11.0	11	7.1	1.30±0.20	0.20±0.05	200
13.0	13	9.8	1.30±0.20	0.20±0.05	100
15.0	15	11.5	1.30±0.20	0.20±0.05	100

## Technical Data

Property	Test Method	Standard Performance
Tensile Strength(MPa)	ASTM D2671	12
Elongation(%)	ASTM D2671	300
Longitudinal change	ASTM D2671	-10%~+10%
Tensile strength after aging(MPa)	120 X24h	12
Non-deformability	140 ,10min,2kg/cm <sup>2</sup> ,loaded 5min	60%
Low-temperature impact	ASTM D 746	-35 ,no cracking
Impact resistance to fall	Room temperature&-40 X30min, impacted by a weight of 200g, 0.5m high	no cracking
Stress-crack resistance	ASTM D 1693	no cracking
Chemical reagents resistance: 0.1 mol/L H <sub>2</sub> SO <sub>4</sub> ,0.1 mol/L NaOH, Brake fluid, Engine oil, Gasoline	No abnormal in appearance	20 ,120hr

## Adhesive

Property	Test Method	Standard
Water Absorption	ASTM D570	0.5%
Sofening Point( )	ASTM E28	105±5
Strength of pearing(AL)	ASTM D 1000	120N/25mm
Strength of pearing(PE)	ASTM D 1000	80N/25mm