

SAE100R7NC **THERMOPLASTIC HOSE**

NON-CONDUCTIVE THERMOPLASTIC

This thermoplastic hydraulic hose is designed for medium-pressure applications requiring non-conductivity. Its polyurethane cover enhances abrasion resistance and meets or exceeds SAE J517 100R7, ISO 3949-R7 and EN855 standards. Also available in Twin Line (SAE100R7NCTW) and conductive options.



TECHNICAL DETAILS

CONSTRUCTION

- Inner Tube:** Polyester elastomer
- Reinforcement:** One or two braids of synthetic fibre
- Outer Cover:** Polyurethane, not pinpricked, orange

SPECIFICATIONS

- Standards:** Meets or exceeds SAE J517 100R7 and EN855. Also meets SAE J517, J343, ISO 3949-R7 and EN855 for non-conductivity where maximum electrical leakage shall not exceed 50A when a 152mm sample is subject to 37.5 kV for 5 minutes, equivalent to 250kV/metre
- Vacuum Rating:** 0.93bar, 700mm Hg (-13.5PSI: 27.5 inch Hg)
- Temperature Range:** -40°C - 100°C. Not to exceed 70°C for air and water-based fluids
- Hose Tails:** J series

APPLICATION

Medium-pressure systems that use petroleum or synthetic-based hydraulic fluids in applications requiring electrical insulation or non-conductivity.

Air Applications: For air and inert gas applications, the cover should be pinpricked.

Part Number	Size (in)	ID (mm)	OD (mm)	Working PSI	Min. Burst Pressure (PSI)	Min. Bend Radius (mm)	Reel Length (m)	Weight (kg/m)
100R7NC-03	3/16	5.0	9.6	3000	12000	25	100	0.06
100R7NC-04	1/4	6.5	12.2	3000	12000	35	100	0.10
100R7NC-05	5/16	8.1	14.3	2700	10800	45	100	0.13
100R7NC-06	3/8	9.7	16.0	2300	9200	55	100	0.15
100R7NC-08	1/2	13.0	20.3	2000	8000	75	100	0.22



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