



GITA MARKETING CO.

TECHNICAL DATA SHEET

TDS PTFE TEFLON HOSE

PTFE Smooth Bore · Stainless Steel Braid · SAE 100R14

Gita Marketing Co.

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PTFE / TEFLON HOSE

Technical Data Sheet — SAE 100R14

High-performance hose with a smooth PTFE (polytetrafluoroethylene) inner tube and an outer stainless steel wire braid (AISI 304). Offers outstanding chemical resistance, wide temperature range, and ultra-low friction bore. Manufactured to SAE 100R14 standard. Supplied by Polyhose India Pvt Ltd and distributed by Gita Marketing Co.

Construction

Inner Tube	PTFE (polytetrafluoroethylene) — smooth, non-stick bore
Reinforcement	Stainless steel wire braid — AISI 304
Cover	Exposed stainless steel braid (no additional outer cover)
Conductive Option	Conductive PTFE liner available — for static-sensitive or flammable media

Size & Pressure Range

Pressure ratings are size-dependent. Values below are representative — contact Gita Marketing Co. for specific size datasheets.

ID (inch)	ID (mm)	OD (mm)	W.P. (bar)	W.P. (PSI)	Burst (bar)
1/8"	3.2	8.1	724	10,500	2,896
3/16"	4.8	9.6	724	10,500	2,896
1/4"	6.4	11.4	690	10,000	2,760
5/16"	7.9	13.0	621	9,000	2,484
3/8"	9.5	14.3	552	8,000	2,208
1/2"	12.7	17.8	483	7,000	1,932
3/4"	19.1	25.4	345	5,000	1,380
1"	25.4	32.8	276	4,000	1,104

Technical Specifications

Temperature Range	–54°C to +204°C for petroleum/water-based hydraulic fluids · up to +260°C for non-hydraulic chemical service
Chemical Resistance	Excellent — resists virtually all acids, alkalis, solvents, fuels, and reactive chemicals
Permeation	Very low — PTFE virtually impermeable to most media
Bore Friction	Ultra-low — non-stick PTFE smooth bore reduces flow resistance
Conductive Liner	Optional — order separately for flammable or static-sensitive media
Standard	SAE 100R14 / SAE J517



Safety Factor

4:1 minimum (burst : working pressure)

Applications

- Chemical processing — acids, alkalis, solvents, reactive media
- Pharmaceutical and food-grade fluid transfer
- High-temperature hydraulic circuits
- Fuel, oil, and solvent return lines
- Steam and hot-fluid trace lines
- Analytical instrument tubing
- Wind energy — resin and catalyst transfer lines

Storage & Handling

PTFE hoses are chemically inert and largely unaffected by normal storage conditions. Store away from sharp objects that could damage the stainless steel braid. Inspect end fittings for corrosion before use. Do not kink.

Important

Conductive PTFE liner must be specified when hose carries flammable or static-sensitive media. End fittings must be correctly swaged or crimped — clamp-type fittings are not suitable for PTFE hose. Consult Gita Marketing Co. for fitting and assembly specifications.

Authorised Supplier

Manufacturer	Polyhose India Pvt Ltd
Product Series	R14 Series — PTFE Hose
Distributor	Gita Marketing Co., Bangalore
Contact	+91-89040-35515 · info@gitamarketing.com
Website	www.gitamarketing.com

Sources: [Polyhose India Pvt Ltd](#) · [SAE 100R14 Specifications — StrongFlex](#) · [www.gitamarketing.com](#)