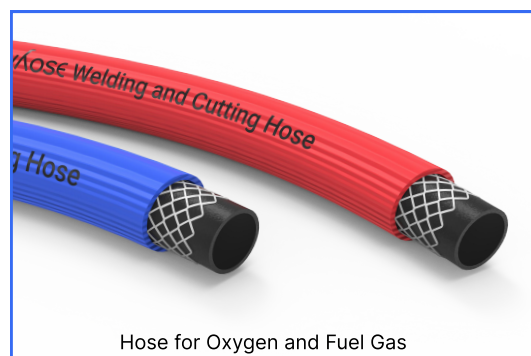


RUBBER HOSE FOR WELDING

Hose pipe constructed out of Nitrile Rubber (NBR) blended with soft plasticized PVC also called TPR Thermoplastic Rubber and synthetic polyester yarn reinforcement.

- Reinforcement of Polyester yarns for good working pressure resistance and safe bursting pressure.
- Quality Standard followed for construction of hose **IS:447-1988 Specification for Rubber Hose for Welding**

Suitable for flow of Oxygen and Fuel gas applied in respective Blue and Red color for Welding and Cutting operation.



Hose for Oxygen and Fuel Gas

ID = 8mm OD = 12.5 BP = 60 Bar

MECHANICAL PROPERTIES ABIDING BY IS:447

Clause	Name of the Test	TEST STANDARD	OBSERVED VALUES
3.2.1	Bore Size	8 mm $\pm$ 0.75	7.90 mm
3.2.2	Lining thickness	Min 1.5 mm	1.82 mm
3.2.3	Cover thickness	Min 1.0 mm	1.28 mm
3.2.3.1	Length	$\pm$ 1%	Confirms
3.3.1(i)	Tensile strength of lining	5.0 MPa (min) (1MPa = 1N/mm ²)	10.6 MPa
3.3.1(ii)	Tensile strength of cover	7.0 MPa (min) (1MPa = 1N/mm ²)	8.9 MPa
3.3.1(ii)	Elongation at break of lining	200%	362%
3.3.1(iii)	Elongation at break of cover	300%	330%
3.3.1(iii)	Accelerated aging- Change in tensile strength of lining	$\pm$ 25% (at 70°C in 24hr)	Minus 3.2%
3.3.1(iii)	Accelerated aging- Change in tensile strength of cover	$\pm$ 25% (at 70°C in 24hr)	Minus 10.8%
3.3.1(iii)	Accelerated aging- Change in elongation at break of lining	+10 to -30% (at 70°C in 24hr)	5.86%
3.3.1(iii)	Accelerated aging- Change in Elongation at break of cover	+10 to -30% (at 70°C in 24hr)	Minus 15.74%
3.4.1(i)	Hydrostatic test pressure of 2.5MPa (25.5 kg/cm ²)	No leakage or other sign of weakness	No leakage or other sign of weakness shown
3.4.1(ii)	Burst pressure	Min. 5MPa (51kg/cm ²)	60 kg/cm ²
3.4.1(iii)	Maximum increase in outside diameter at WP of 1.25MPa (12.75 kg/cm ²)	+ 15 to 5%	Maximum 2.65%
3.4.1(iv)	Maximum change in length at WP of 1.25 MPa (12.75 kg/cm ²)	$\pm$ 12%	Minus 3%
3.4.1(v)	Adhesion between lining to reinforcement, between reinforcement and reinforcement to cover	1.5 kN/m (min)	3.80 kN/m

All tests conducted adopting the test procedures and sample conditioning as said in the referred quality test standards in Ascent India factory laboratory.

