

General Properties of Hose Compounds

ASTM Designation (D1418-93)	Common Name	Popular Hoses	General Properties
CIIR	Chlorobutyl	T410, T422, T341	Excellent resistance to high heat and steam. Very good weathering resistance, low permeability to air. Good physical properties. Not oil resistant.
EPDM	EPM or EPDM	T202, T253, T902, T340, T955, T350, T351, T903	Good general purpose polymer. Excellent heat, ozone and weather resistance. Not oil resistant.
NBR	BUNA-N or Nitrile	T605, T604, T405	Excellent oil resistance. Good physical properties.
NR	Natural or Gum	T763, T750, T720, T704	Highest abrasion resistance. Excellent physical properties. Not oil resistant.
SBR	SBR	T140, T204, T254	Very good abrasion resistance. Good physical properties. Not oil resistant. Mainly used as a cover material.
UHMWPE	UHMWPE	T509, T519	Excellent resistance to 98% of existing industrial chemicals. Meets FDA requirements for food and beverages.
XLPE	Cross Linked Polyethylene	T505	Excellent resistance to 90% of existing industrial chemicals.

	T202 Water Suction & Discharge Hose - Extremely popular hose for water and dilute agricultural chemical transfer. Used in many similar applications as PVC suction hose, but where a more durable product is needed. The EPDM cover is highly resistant to weather and sunlight allowing for extended outdoor use.
	T253 Water Discharge Hose - Nearly identical construction to the T202 but without the steel wire helix and therefore only intended for discharge applications. Also popular for water and dilute chemical transfer.
	T605 Petroleum Transfer Hose - Versatile hose used for heavy duty tank truck delivery of a wide variety of petroleum based products such as gasoline, diesel fuel and oils. The NBR (nitrile) tube is highly oil resistant and the CR (chloroprene) cover has good oil, ozone and abrasion resistance.
	T604 Hydraulic SAE 100 R4 Oil Return Hose - Similar construction to the T605 but designed with higher performance characteristics for demanding hydraulic return line applications. Also popular for industrial hose applications such as hydraulic fluids, water/glycol solutions, lubricants, crude oils and fuel oils where higher working pressures, a tighter bend radius or a broader service temperature range is required.
	T505 XLPE Acid/Chemical Suction & Discharge Hose - Heavy duty chemical hose rated to 240 PSI, and able to transfer of 90% of existing industrial chemicals. The EPDM cover is highly resistant to UV and sunlight allowing for extended outdoor use.
	T509/T519 UHMW Acid/Chemical Suction & Discharge Hoses - Similar construction to the T505, however the UHMW liner handles 98% of existing industrial chemicals. Liner also meets FDA CFR 21 for food product transfer. The T519 version is corrugated for additional flexibility.
	T763 Dry Powder Discharge Hose - The industry standard for delivery of abrasive materials such as dry cement, grains, pellets and sand thanks to its highly abrasion resistant 1/4" natural rubber tube. Extremely popular for frac sand delivery, and also used for a variety of abrasive slurries.
	T902 Hot Air Blower Hose - Used on tank trucks to warm up and liquefy food products when the material has solidified or frozen, making it easier to unload. Heat resistant EPDM tube and cover handles up to 356°F.
	T750 Sandblast Hose - 4-ply, highly abrasion resistant, conductive natural rubber tube designed to spray sand and other shot blast materials. Used for paint and rust removal from bridges, water towers and ships.
	T140 Braided Steel Wire Air Hose - High pressure air hose for use in mines, quarries and construction, compressed air applications. High tensile steel wire braids makes it acceptable for applications up to 600 PSI, and durable SBR cover provides resistance to abrasion.