

# Smooth Bore XLPE Hose for Suction & Discharge

## Type 341X



Application	Type 341X hoses have an outstanding chemical resistance. The use of cross-linked polyethylene (XLPE) for the lining allows the hose to handle some 90% of all industrial chemicals, with the exception of strong oxidising agents such as nitric and chromic acids.		
	Light weight and superb chemical resistance, rather than flexibility, are the main characterisations of the 341X.		
Specification	to Dunlop Oil & Marine internal specifications	Working / Burst Pressures	14 / 56 Bar

Hose Component	Description
Lining	Main XLPE lining.
Main reinforcement	Multiple plies of high tenacity rayon cord designed for a combination of high strength and resistance to fatigue. Each layer is fully encapsulated in rubber to prevent abrasion with adjacent layers.
Embed wire	Helical steel wire to resist collapse and crush loads
Holding ply	Textile reinforcement to increase adhesion between hose body and cover
Cover	Weathering and abrasion resistant rubber compound
Fittings	Swaged-on stems and ferrules with flanges to customer requirements.

Hose Characteristics									
	2in.	2.5in.	3in.	4in.	5in.	6in.	8in.	10in.	12in.
Internal Diameter (mm)	50.8	63.5	76.2	101.6	127	152.4	203.2	254	304.8
Outside Diameter (mm) (nominal)	83	96	109	134	162	188	244	296	355
Hose Body Weight (kg/m)	4.6	5.4	6.4	8.4	11.7	14.4	22.3	29.9	41.9
Hose End Weight (kg/hose)	8	13	15	23	28	37	58	100	155
Min. Bend Radius (m)	0.41	0.51	0.61	0.81	1.02	1.22	1.62	2.03	2.44
Safe Working Tensile Load (tonnes)	1.1	1	1.1	1.2	3	3.3	6.3	7.5	9.8
Operating Temperature (all sizes)	-20°C to +60°C								
Electrical Continuity	Electrically continuous or discontinuous as required.								

*For alternative sizes, lining materials or pressure / temperature ratings please contact us.*



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ContiTech Division  
 of Continental AG

## Acid-Chemical Hose

# 77B Paint Spray & Chemical Specification (3207NN/3207T)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
1/4	6.4	0.52	13.2	500	3.45	30.0	762	3.0	76	0.13	213	3207-0290
5/16	7.9	0.59	15.0	500	3.45	30.0	762	3.0	76	0.16	213	3207-0291
3/8	9.5	0.67	17.0	500	3.45	30.0	762	3.0	76	0.20	213	3207-0292
1/2	12.7	0.87	22.1	750	5.17	25.0	635	5.0	127	0.33	213	3207-0294
3/4	19.1	1.16	29.5	750	5.17	25.0	635	6.0	152	0.52	106	3207-0296

### Recommended for:

Spray applications including paint, pesticides and herbicides; suction and discharge transfer of petroleum based products.

77B is designed for maximum flexibility and kink resistance. It will handle most paints, coatings, and solvents in spray applications from 500 to 750 psi; and it is ideal for the transfer of a variety of petroleum based products (aliphatic, aromatic, and chlorinated hydrocarbons such as toluene, xylene, benzene, gasoline, and carbon tetrachloride).

Compatible with commercially available Bio-Diesel up to B-100.

NOTE: Not recommended for acids or use in high pressure paint spray applications requiring a static conductive hose.

**Temperature:** -40°C to +66°C continuous service. Call Gates Customer Service for applications above +49°C.

### Construction:

**Tube:** Type Z (Special flexible nylon material). Clear.

**Reinforcement:** Synthetic, high tensile textile cord.

**Cover:** Type A (Neoprene). Black.

### Packaging:

**1/4" through 1/2":** Packaged in 182m to 243 reels. Maximum 4 pieces. One length 7m to 15m. Maximum of 2 lengths under 30m.

**3/4":** Packaged in 91m to 121m reels. Maximum 3 pieces. One length between 7m to 15m.

All other lengths over 7m. Maximum 2 pieces under 30m.

**Branding:** Continuous ink print label.

Example: 77B PAINT SPRAY AND CHEMICAL 3/8 Inch (9.5mm) 500 PSI (3.45MPa) WP Made In U.S.A.

### GATES VALUE POINT: BETTER CHOICES

It's obvious that no single hose will work for all acid and chemical applications. That's why Gates provides you with choices to meet your specific transfer needs. Gatron, Teflon, Neoflon, UHMWPE, EPDM, PVC, and nylon tube materials offering various chemical resistance properties. EPDM, UHMWPE, PVC, and neoprene covers to handle different working conditions and external factors. A range of sizes, temperature limits, and working pressure ratings that fit your transfer application requirements. If you need assistance in making the right choice, contact your Gates Distributor or Gates Product Application.

At Gates, the choice is yours.

# Acid-Chemical Hose

## Mustang® (Specification 4695)



Nom. I.D.		Nom. O.D.		Maxi. W.P.		Suction		Min. Bend Radius		Kg. Per	Standard Pack	Part No.
(In.)	(mm)	(In.)	(mm)	(psi)	(Mpa)	(In. Hg)	(mm Hg)	(In.)	(mm)	(m.)	(m.)	
3/4	19.1	1.25	31.8	200	1.38	30.0	762	4.0	102	0.63	30	4695-0002
1	25.4	1.50	38.1	200	1.38	30.0	762	5.0	127	0.79	30	4695-0003
1 1/4	31.8	1.75	44.5	200	1.38	30.0	762	6.0	152	0.92	30	4695-0004
1 1/2	38.1	2.04	51.8	200	1.38	30.0	762	8.0	203	1.25	30	4695-0005
2	50.8	2.54	64.5	200	1.38	30.0	762	9.0	229	1.57	30	4695-0001
2 1/2	63.5	3.05	77.5	150	1.03	30.0	762	12.0	305	2.01	30	4695-0006
3	76.2	3.58	90.9	150	1.03	30.0	762	18.0	457	2.61	30	4695-0007
4	101.6	4.69	119.1	125	0.86	30.0	762	24.0	610	3.95	30	4695-0008

### Recommended for:

Tank truck, barge, ship, or storage tank transfer of a variety of chemical products.

Mustang contains a wire helix for full suction capability, as well as for routing hoses through tight bends. Its Modified Cross-linked Polyethylene tube stock is "best in class" for maintaining a tight seal with stainless steel fittings, and is designed for cleaning with "open end" 50 PSI steam or in a bath containing 10% (NaOH) @ 100°C. Cleaning in place (CIP) methods may be used. Not recommended for "closed steam" cleaning.

Applications include over 950 basic chemicals that are building blocks for numerous chemicals used in a variety of industries. Please refer to the Gates Chemical Resistance Table for proper hose selection.

NOTE: For applications requiring greater than 90% sulphuric acid contact Gates Customer Service.

**Temperature:** -40°C to +121°C normal service. Mustang is designed to withstand fluid temperatures to +121°C; however the rating is dependent on the specific chemical conveyed. Contact Gates Customer Service for any chemical above +52°C.

### Construction:

**Tube:** Type K (Gatron™ Modified Cross-linked Polyethylene). Tan. High chemical resistance.

**Reinforcement:** Synthetic, high tensile textile with steel wire helix for full suction capability and flexibility.

**Cover:** Type P (EPDM). Black corrugated with orange spiral stripe.

**Packaging:** 30m length coiled and wrapped in polyethylene..

**Branding:** Continuous transfer label.

Example:  Mustang® Acid-Chemical Suction/Discharge 200 PSI (1.38MPa) WP Made In U.S.A.

For your safety: Use Permanent Couplings above 125°F.

### GATES VALUE POINT: GATRON™

Gates uses a proprietary material called Gatron in many of its Acid-Chemical hose. A blend of rigid cross-linked Polyethylene (XLPE) and a number of other polymers and additives. Gatron offers excellent resistance to a variety of acids and chemicals, while providing much better flexibility, higher temperature capability, improved coupling seal, and better resistance to coupling "spinning" in high temperature applications or cleaning operations when compared to competitive XLPE products.

Gatron is the tube material used in Mustang, Mustang CR, and Appaloosa. It is also used as a "back-up" tube for the FEP and UHMWPE liners in the Stallion, Stallion CR, and Renegade. This extra Gatron layer provides a safety factor in the event of a liner tear in the hose, and also adds to hose performance capabilities.

Gatron is a major reason why Gates Acid-Chemical hose are recognised as the premier line in the industry.