Dense-Pak High Pressure Hose

High Pressure Dense-Pak PTFE hose is ideal for chemicals, hydraulic fluids, epoxies, sealants, adhesives and compressed gases. We can produce assemblies to your specific length and diameter needs to connect to your system. If you do not find the exact hose and fitting combination required for your service please contact our Customer Service. You can be assured our Engineering experts will be easy to talk to and focused on solving your problem.

Applications:

High temperature hydraulics (phosphate-ester based) in steel mills, plastics reaction injection molding (RIM), heated hose dispensing hot-melts and high pressure gas and oxygen transfer.

Innercore:

Heavy Wall PTFE fully Anti-static innercore to eliminate potential dangerous build-up of static charges (see Technical Bulletin). FDA compliant. PTFE compliant with ISO 12086 Part 1. Dense-Pak assemblies are manufactured with either a post-sintered PTFE core for gas and pneumatic service or a non post-sintered PTFE innercore for transferring liquids which provides lower cost without sacrificing performance.

Reinforcement:

Exterior braid is constructed with multiple wires twisted together to form a lighter-weight more flexible high pressure hose. Sizes .22 (5.6mm) to .50 (12.6mm) ID have a single layer of type 304 stainless steel high tensile wire EN 1.4301 and sizes .62 (15.7mm) to 1.38 (34.9mm) have two layers of braid.

Temperature Range:

-65°F (-54°C) to +500°F (+260°C)

IMPERIAL											
Inch Reference # Non Past-Sintered	Inch Reference # Sintered	Actual ID (in)	Tol (+/-) ID (in)	Actual OD (in)	Tol (+/-) OD (in)	Innercore Wall Thickness (in)	Max Working Pressure PSI	Test Pressure PSI	Min Burst Pressure PSI	Min Bend Radius (in)	Weight (lb/ft)
DPNI.22	DPSI.22	0.22	0.010	0.38	0.015	0.041	5000	10,000	16,000	1.5	0.10
DPNI.31	DPSI.31	0.31	0.010	0.49	0.015	0.041	5000	10,000	16,000	2.5	0.16
DPNI.40	DPSI.40	0.40	0.010	0.61	0.018	0.046	5000	10,000	16,000	2.9	0.23
DPNI.50	DPSI.50	0.50	0.010	0.72	0.018	0.051	5000	10,000	16,000	3.3	0.32
DPNI.62	DPSI.62	0.62	0.015	0.97	0.020	0.051	5000	10,000	16,000	4	0.66
DPNI.87	DPSI.87	0.87	0.015	1.26	0.020	0.051	5000	10,000	16,000	5	1.02
DPNI1.12	DPSI1.12	1.12	0.025	1.65	0.040	0.071	5000	10,000	16,000	12	1.85
DPNI1.380	DPSI1.380	1.38	0.025	1.90	0.040	0.071	4000	8,000	12,000	14	1.91

METRIC											
Metric Reference # Non Past-Sintered	Metric Reference # Sintered	Actual ID (mm)	Tol (+/-) ID (mm)	Actual OD (mm)	Tol (+/-) OD (mm)	Innercore Wall Thickness (mm)	Max Working Pressure Bar	Test Pressure Bar	Min Burst Pressure Bar	Min Bend Radius (mm)	Weight (kg/m)
DPNM5.6C	DPSM5.6C	5.6	0.25	9.7	0.38	1.03	340	690	1100	38	0.14
DPNM7.8C	DPSM7.8C	7.8	0.25	12.5	0.38	1.03	340	690	1100	64	0.24
DPNM10.C	DPSM10.C	10.2	0.25	15.5	0.44	1.17	340	690	1100	74	0.34
DPNM12.C	DPSM12.C	12.6	0.25	18.3	0.46	1.30	340	690	1100	84	0.47
DPNM15.C	DPSM15.C	15.7	0.38	24.6	0.51	1.30	340	690	1100	102	0.98
DPNM22.C	DPSM22.C	22.0	0.38	32.0	0.51	1.30	340	690	1100	127	1.50
DPNM28.C	DPSM28.C	28.6	0.64	41.9	1.02	1.80	340	690	1100	305	2.75
DPNM34.C	DPSM34.C	34.9	0.64	48.3	1.02	1.80	275	315	825	356	2.84

**Minimum burst pressures calculated at 70°F (21°C). Non-impulse applications. For impulse applications, working pressure is 3000 PSI (207 Bar). High temperature pressures calculated at 400°F (205°C): working pressure drops to 3000 PSI (207 Bar). Please contact the factory. For gas and air applications specify DP post-sintered only.*