

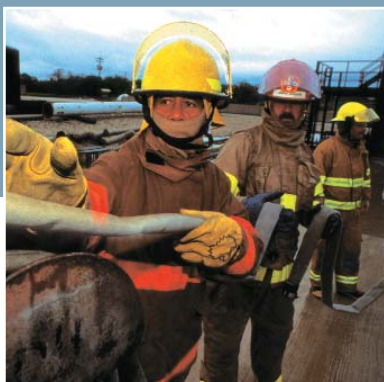
# Imperial Hose Product Guide



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## Imperial Hose, Quality Products That Perform



MUNICIPAL



INDUSTRIAL



FORESTRY

Imperial, part of the Kidde Fire Fighting organization, is a quality brand of woven jacket and rubber fire and industrial hose and hose products. Products manufactured from high quality raw materials to exacting standards make Imperial hose a durable and reliable performer, offering a complete range of products for general purpose use, industrial, municipal and forestry fire fighting.

# PERM-I-DENT II™ Hose Coating

## Quality you can count on

All Imperial woven jacket products are available with our unique, innovative, abrasion resistant coating. PERM-I-DENT II completely encapsulates the fibers of our jacket, providing a long lasting, vibrant color shield against the rough treatment that fire hose is exposed to every day.

PERM-I-DENT II displays extreme resistance to bacterial and mildew growth as well.

PERM-I-DENT II is offered in six vibrant NFPA recommended colors; red, yellow, orange, blue, green and tan.

When subjected to the Mil-H-24606B Taber Abrader test, PERM-I-DENT II surpassed the minimum requirement by 6 times compared to other hose manufacturers. This coating is available on Imperial 70D6, 70S6, 70S5, 70S3, 70D8, Polylite, and 40D8.

Specify PERM-I-DENT II to ensure that you get the very best abrasion resistant protection.



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# Industrial Fire and General Purpose Hose

## Imperial 70S3 Polyester Single Jacket Rubber Lined Fire Hose

Imperial 70S3										
Size inch mm	Service psi kPa	Pressure				Bowl Size		Weight*		Coil Diameter
		Proof psi kPa	Burst psi kPa	inch mm	inch mm	50' (15m) lbs. kg	50' (15m) inch mm			
1-1/2 38	150 1050	300 2100	450 3150	1-13/16	46	11	5.0	15	381	
2-1/2 65	150 1050	300 2100	450 3150	2-7/8	73	22	9.9	16	406	

A single jacket, polyester industrial fire hose with an ozone-resistant E.P.D.M. rubber lining. The spun polyester yarn in the jacket offers superior strength and wear characteristics. The polyester construction is mildew resistant. The standard color for Imperial 70S3 Hose is white. Other colors available with our innovative PERM-I-DENT II abrasion resistant coatings are red, yellow, orange, blue, green and tan.

## Imperial 70S5 Polyester Single Jacket Rubber Lined Fire Hose

Imperial 70S5										
Size inch mm	Service psi kPa	Pressure				Bowl Size		Weight*		Coil Diameter
		Proof psi kPa	Burst psi kPa	inch mm	inch mm	50' (15m) lbs. kg	50' (15m) inch mm			
1-1/2 38	250 1750	500 3500	750 5250	1-13/16	46	11	5.0	15	381	
2-1/2 65	250 1750	500 3500	750 5250	2-7/8	73	22	9.9	16	406	

A single jacket, polyester industrial fire hose with an ozone-resistant E.P.D.M. rubber lining. The spun polyester yarn in the jacket offers superior strength and wear characteristics. The polyester construction is mildew resistant. The standard color for Imperial 70S5 Hose is white. Other colors available with our innovative PERM-I-DENT II abrasion resistant coatings are red, yellow, orange, blue, green and tan.

## Imperial 70S6 Polyester Single Jacket Rubber Lined Fire Hose

Imperial 70S6										
Size inch mm	Service psi kPa	Pressure				Bowl Size		Weight*		Coil Diameter
		Proof psi kPa	Burst psi kPa	inch mm	inch mm	50' (15m) lbs. kg	50' (15m) inch mm			
1-1/2 38	300 2100	600 4200	900 6300	1-13/16	46	11	5.0	15	381	
2-1/2 65	300 2100	600 4200	900 6300	2-7/8	73	22	9.9	16	406	

A single jacket, polyester industrial fire hose with an ozone-resistant E.P.D.M. rubber lining. The spun polyester yarn in the jacket offers superior strength and wear characteristics. Designed for interior or exterior fire protection, Imperial 70S6 is NFPA compliant as an attack hose. The polyester construction is mildew resistant. The standard color for Imperial 70S6 Hose is white. Other colors available with our innovative PERM-I-DENT II abrasion resistant coatings are red, yellow, orange, blue, green and tan.

## Imperial 70D6 Polyester Double Jacket Rubber Lined Fire Hose

Imperial 70D6										
Size inch mm	Service psi kPa	Pressure				Bowl Size		Weight*		Coil Diameter
		Proof psi kPa	Burst psi kPa	inch mm	inch mm	50' (15m) lbs. kg	50' (15m) inch mm			
1-1/2 38	300 2100	600 4200	900 6300	1-15/16	49	15	6.8	18	457	
1-3/4 45	300 2100	600 4200	900 6300	2-1/8	54	22	9.9	18	457	
2-1/2 65	300 2100	600 4200	900 6300	3	76	31	14.0	21	533	
3 75	300 2100	600 4200	900 6300	3-9/16	90	38	17.1	21	533	

This heavy duty double jacket industrial fire hose is designed for daily use where higher pressure and additional abrasion resistance is required. Construction of 100% high tensile strength virgin polyester yarns, both warp and filler, provides extra durability. Hose comes standard with E.P.D.M. lining. The standard color for Imperial 70D6 Hose is white. Other colors available with our innovative PERM-I-DENT II abrasion resistant coatings are red, yellow, orange, blue, green and tan.

## Imperial 662 Through-The-Weave Industrial Fire Hose

Imperial 662										
Size inch mm	Service psi kPa	Pressure				Bowl Size		Weight*		Coil Diameter
		Proof psi kPa	Burst psi kPa	inch mm	inch mm	50' (15m) lbs. kg	50' (15m) inch mm			
1-1/2 38	250 1750	500 3500	750 5250	1-3/4	44	10	4.5	12	305	
1-3/4 45	250 1750	500 3500	750 5250	2	51	14	6.3	14	356	
2 50	250 1750	500 3500	750 5250	2-3/16	56	18	8.1	14	356	
2-1/2 65	250 1750	500 3500	750 5250	2-3/4	70	19	8.6	14	356	

Imperial 662 is a layflat, lightweight, flexible fire hose specifically designed for industrial fire protection. Imperial 662 is U.L. approved and features a unique through-the-weave, one piece construction that will not delaminate. The synthetic reinforcement is totally encased in a PVC nitrile rubber cover and lining which is resistant to fuels, oils, chemicals, abrasion, heat, mildew, rot, and ozone. The





**Imperial AG**  
**Heavy Duty Rubber Covered**  
**Industrial Discharge Hose**

Imperial AG											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 50' (15m)		Coil Diameter 50' (15m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
1-1/2 38	300	2100	600	4200	900	6300	1-13/16	45	16	7.2	15 381
2 50	300	2100	600	4200	900	6300	2-3/16	56	20	9.0	16 406
2-1/2 65	300	2100	600	4200	900	6300	2-7/8	73	25	11.3	17 432
3 75	300	2100	600	4200	900	6300	3-13/32	87	35	15.8	18 457
4 100	200	1400	400	2800	600	4200	4-5/16	110	40	18.0	19 483
6 150	200	1400	400	2800	600	4200	6-3/8	162	80	36.0	21 533

Imperial AG is a layflat, flexible water discharge hose with durability and abrasion resistance superior to conventional rubber hose. Imperial AG features a unique one piece, through-the-weave construction, and attains its exceptional working pressure from a synthetic woven textile. Its excellent durability is derived from a high-tensile rubber compound which completely encases the jacket. The standard color for Imperial AG is black.

**Imperial 661**  
**Lightweight Through-The-Weave**  
**Washdown Hose**

Imperial 661											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 50' (15m)		Coil Diameter 50' (15m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
1-1/2 38	225	1575	450	3150	750	5250	1-3/4	44	10	4.5	12 305
2 50	225	1575	450	3150	750	5250	2-3/16	56	15	6.8	13 330
2-1/2 65	225	1575	450	3150	750	5250	2-3/4	70	19	8.6	14 356

Imperial 661 is a layflat, lightweight, flexible maintenance hose with the durability and abrasion resistance of heavy duty rubber hose. Imperial 661 features a unique through-the-weave, one piece construction that will not delaminate. The synthetic reinforcement is totally encased in nitrile rubber cover and lining which is resistant to fuels, chemicals, and oil. Imperial 661 will not mildew or rot and is heat and ozone resistant. The standard color for Imperial 661 is blue.

**Imperial 90NRR**  
**Polyester Single Jacket Rack**  
**and Reel Hose**

Imperial 90NRR											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 50' (15m)		Coil Diameter 50' (15m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
1-1/2 38	250	1750	500	3500	750	5250	1-11/16	43	5	2.3	12 305

This interior fire protection hose is designed to replace unlined linen length for length. This polyester, SBR lined hose is ideal for interior rack or reel service. Imperial 90NRR is available folded for standard pin racks in 50' (15m), 75' (22.5m), and 100' (30m) lengths. Specify folded, coiled, or number of pins for rack (15 pins for 50', 20 pins for 75', or 25 pins for 100'). The standard color for Imperial 90NRR is white. UL Label and (or) FM approval is available. UL / FM hose is rated at 150 PSI service pressure.

**Imperial M**  
**Single Jacket Polyester**  
**Mill Hose**

Imperial M											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 50' (15m)		Coil Diameter 50' (15m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
1 25	125	875	250	1750	500	3500	1-1/4	32	8	3.6	13 330
1-1/2 38	125	875	250	1750	500	3500	1-11/16	43	10	4.5	14 356
2 50	125	875	250	1750	500	3500	2-3/8	60	16	7.2	15 381
2-1/2 65	125	875	250	1750	500	3500	2-11/16	68	20	9.0	15 381
3 75	125	875	250	1750	500	3500	3-3/8	86	27	12.2	17 432

A heavy duty industrial mill hose, constructed of 100% spun polyester for abrasive environments and low maintenance. Designed for water discharge and other low pressure applications such as washdown. The liner is SBR for petrochemical resistance. The standard color for Imperial M is white.

Factory Mutual Approved

# Municipal Fire and Forestry Hose

## Imperial 40D8 Nylon Double Jacket Rubber Lined Fire Hose

Imperial 40D8												
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight*		Coil Diameter	
	psi	kPa	psi	kPa	psi	kPa	inch	mm	50' (15m) lbs.	50' (15m) kg	inch	mm
1-1/2 38	400	2800	800	5600	1200	8400	1-15/16	49	14	6.3	18	457
1-3/4 45	400	2800	800	5600	1200	8400	2-1/8	54	18	8.1	18	457
2-1/2 65	400	2800	800	5600	1200	8400	3	76	25	11.3	20	508
3 75	400	2800	800	5600	1200	8400	3-9/16	90	35	15.8	21	533

Imperial 40D8 is constructed of high strength, low stretch entangled filament polyamide/Cordura fibers over a rubber, ozone proof, E.P.D.M. tube. Imperial 40D8 is available with our innovative PERM-I-DENT II abrasion resistant coating. The standard colors are red, yellow, orange, blue, green and tan.

## Imperial 70D8 Polyester Double Jacket Rubber Lined Fire Hose

Imperial 70D8												
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight*		Coil Diameter	
	psi	kPa	psi	kPa	psi	kPa	inch	mm	50' (15m) lbs.	50' (15m) kg	inch	mm
1-1/2 38	400	2800	800	5600	1200	8400	1-15/16	49	15	6.8	18	457
1-3/4 45	400	2800	800	5600	1200	8400	2-1/8	54	22	9.9	18	457
2-1/2 65	400	2800	800	5600	1200	8400	3	76	31	14.0	21	533
3 75	400	2800	800	5600	1200	8400	3-9/16	90	42	18.9	21	533

Imperial 70D8 is the ultimate in quality, municipal grade fire hose. This durable, double jacket hose is constructed of 100% high tensile strength polyester yarns, both warp and filler, and lined with a high-tech E.P.D.M. tube. Its engineered design guarantees minimum weight with maximum durability and flexibility. The standard color for Imperial 70D8 Hose is white. Other colors available with our innovative PERM-I-DENT II abrasion resistant coatings are red, yellow, orange, blue, green and tan.

## Imperial PolyLite Polyester Double Jacket Urethane Lined Fire Hose

Imperial PolyLite												
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight*		Coil Diameter	
	psi	kPa	psi	kPa	psi	kPa	inch	mm	50' (15m) lbs.	50' (15m) kg	inch	mm
1-1/2 38	400	2800	800	5600	1200	8400	1-15/16	49	12	5.4	16	406
1-3/4 45	400	2800	800	5600	1200	8400	2-1/8	54	14	6.3	16	406
2-1/2 65	400	2800	800	5600	1200	8400	3	76	25	11.3	19	483
3 75	400	2800	800	5600	1200	8400	3-9/16	90	31	14.0	19	483

Imperial PolyLite is a lightweight hose that utilizes a thin, high tensile thermoplastic lining to minimize weight. Both the inner and outer jackets are constructed of polyester warp yarns and filament polyester filler yarns. Imperial PolyLite's lining meets the NSF (National Sanitation Foundation) Standard 61 for potable water and has a tensile strength of over 5000 psi (35,000 kPa). Imperial PolyLite is U.L. Listed. The standard color for Imperial PolyLite Hose is white. Other colors available with our innovative PERM-I-DENT II abrasion resistant coatings are red, yellow, orange, blue, green and tan.

## Imperial Super Attack Lightweight Attack Hose

Imperial Super Attack												
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight*		Coil Diameter	
	psi	kPa	psi	kPa	psi	kPa	inch	mm	50' (15m) lbs.	50' (15m) kg	inch	mm
1 25	300	2100	600	4200	900	6300	1-1/4	32	8	3.6	15	381
1-1/2 38	300	2100	600	4200	900	6300	1-13/16	46	16	7.3	16	406
1-3/4 45	300	2100	600	4200	900	6300	2-1/16	52	18	8.2	16	406
2 50	300	2100	600	4200	900	6300	2-5/16	59	20	9.1	17	432
2-1/2 65	300	2100	600	4200	900	6300	2-7/8	73	27	12.2	18	457
3 75	300	2100	600	4200	900	6300	3-13/32	87	33	15.0	18	457

Imperial Super Attack is a lightweight nitrile rubber through-the-weave construction fire hose. Its synthetic jacket is completely protected and locked in by a rubber cover and lining for extra toughness and durability. A heavy rib construction makes this hose resistant to cuts, punctures, impact and abrasion. Imperial Super Attack is a 600 psi (4200 kPa) fire hose that withstands temperatures from 1200°F to -37°F, (649°C to -38°C). Its light-weight design is virtually non-kinking and ideal for municipal fire protection. The standard colors for Imperial Super Attack are yellow and red, 1" size is available in yellow only.



### Imperial Superlite High Rise Fire Hose

Imperial Superlite											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 50' (15m)		Coil Diameter 50' (15m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
1-1/2 38	300	2100	600	4200	900	6300	1-3/4	44	11	5.0	13 330
2 50	300	2100	600	4200	900	6300	2-3/16	56	18	8.1	14 356
2-1/2 65	300	2100	600	4200	900	6300	2-3/4	70	20	9.0	15 381

Imperial Superlite is an ultra-lightweight, maneuverable, nitrile rubber hose designed specifically for fighting fires in high rise buildings. The lightweight through-the-weave construction is heat and puncture resistant, kink resistant and has low friction loss. The rubber cover prevents water from penetrating the reinforcement thus minimizing the weight of the hose when in service. The standard color for Imperial Superlite is blue.

### Imperial Superflow Large Diameter Supply Hose

Imperial Superflow											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 100' (30m)		Coil Diameter 100' (30m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
3 75	300	2100	600	4200	900	6300	3-13/32	87	70	31.5	25 635
4 100	225	1575	450	3150	675	4725	4-5/16	110	90	40.5	24 610
5 125	200	1400	400	2800	600	4200	5-3/8	137	109	49.1	27 686

Imperial Superflow is a tough large diameter hose with the ability to deliver more water at a lower cost. But it doesn't stop there. It is lightweight, compact and durable with a high resistance to oils, chemicals, ozone and heat. Its tough, high tensile cover and lining, permanently interlocked with the synthetic reinforcement, provide greater abrasion resistance while being snag-proof, kink resistant, and immune to mildew or rot. U.L. labeling is available on 4" (100 mm) and 5" (125 mm) only. The standard color for Imperial Superflow is yellow.

### Imperial F187 Polyester Single Jacket Plastic Lined Forestry Hose

Imperial F187											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 100' (30m)		Coil Diameter 100' (30m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
1 25	300	2100	600	4200	900	6300	1-1/4	31.8	7.5	3.4	14 356
1-1/2 38	300	2100	600	4200	900	6300	1-3/4	45	13.5	6.1	16 406

A lightweight polyester jacket, polyurethane lined forestry fire hose that meets the USDA-US Forest Service Specification 5100-187. The standard color for Imperial F187 is white.

### Imperial 629 Rubber Covered Through-The-Weave Forestry Hose

Imperial 629											
Size inch mm	Service		Pressure Proof		Burst		Bowl Size		Weight* 100' (30m)		Coil Diameter 100' (30m)
	psi	kPa	psi	kPa	psi	kPa	inch	mm	lbs.	kg	inch mm
1 25	300	2100	600	4200	900	6300	1-1/4	31.8	10	4.5	16 406
1-1/2 38	300	2100	600	4200	900	6300	1-11/16	42.9	17	7.5	18 457

Nitrile rubber covered forestry hoses that require no washing or drying and are mildew resistant. A protective rubber covering resists burns and prevents damage of the textile reinforcement which may be caused by abrasion or hot embers. The standard color is high visibility yellow. There is a minimum order quantity for 1-1/2" size.

# COUPLINGS

The chart below indicates standard couplings offered for each type and size of Imperial hose products.

Please consult your dealer for other available coupling options.



Hose Type Size	RL	NH	PL	RL	NPSH	PL	Storz Expansion Ring	Storz Clamp
	Aluminum	RL Brass	Brass	Aluminum	RL Brass	Brass		
<b>F187</b>								
1"				X				
1-1/2"	X			X				
<b>90NRR and M</b>								
1"	X			X				
1-1/2"	X	X	X	X	X	X		
2"	X			X	X			
2-1/2"	X	X	X	X	X	X		
3"	X			X				
<b>70S6, 70S5, and 70S3</b>								
1-1/2"	X	X	X	X	X	X		
2-1/2"	X	X	X	X	X	X		
<b>70D8, POLYLITE, 40D8 and 70D6</b>								
1-1/2"	X	X	X	X	X	X		
1-3/4"	X			X				
2-1/2"	X	X	X	X	X			
3"	X			X				
<b>SUPERLITE, 661, 662</b>								
1-1/2"	X	X	X	X	X	X		
1-3/4"	X			X				
2"	X							
2-1/2"	X	X		X				
3"	X			X				
<b>SUPER ATTACK, 629, AG</b>								
1"	X			X				
1-1/2"	X	X	X	X	X	X		
1-3/4"	X		X	X				
2"	X	X		X	X			
2-1/2"	X	X	X	X	X	X		
3"	X			X				
<b>AG, SUPERFLOW</b>								
3"	X						X	X
4"	X							X
5"	X						X	X

## Legend

NH - National Standard Thread

PL - Becker Lug