



**Maximum durability for demanding engines:  
certified to SAE J20 and MILSPEC A-A-52426**

This heavy-duty silicone hose combines aramid or polyester fabric reinforcement with a special silicone compound to excel in demanding military and commercial vehicle applications. Designed for cooling and heating systems in diesel and gasoline engines, it withstands high temperatures and pressures, achieving dual certification to SAE J20 and MILSPEC A-A-52426.

The enhanced resistance to compression set, heat, coolants, and oils ensures reliable performance across a wide range of vehicles, including combat vehicles, trucks, buses, cars, and off-road equipment

## PROPERTIES

- This material is characterized by a high resistance to hardening, excellent compression properties, and superior flexibility for ease of assembly.
- It demonstrates excellent resistance to thermal aging and oxidation (oxygen, ozone, UV).
- Standard color is military green with a smooth finish; other colours are available upon request.
- Standard length is 4 m (13.12 ft.), with shorter lengths available.
- Special shapes can be manufactured upon request.
- Operational temperature range:
  - **PES Reinforcement:** -60°C (-75 F) to +180°C (356 F), it may reach up to 200°C (392 F) during short periods of time.
  - **META-ARAMID Reinforcement:** -60°C (-75 F) to +200°C (392 F), it may reach up to 220°C (428 F) during short periods of time.

## CONSTRUCTION

This reference features a four-layer fabric reinforcement, ensuring robust performance. For high-temperature environments, meta-aramid fibers can be specified; otherwise, polyester is standard.

## OTHER CONFIGURATIONS

Wire reinforcement: for vacuum requirements

## LIMITATIONS

- Respect the work pressure established values.
- For applications requiring negative pressure (vacuum), a metal wire must be inserted between the silicone layers of the hose.
- This product is not recommended for the transport of abrasive particles.

## REGULATIONS

- Meets or exceeds all requirements including performance, physical characteristics and operating conditions of SAE J20 R1 Class A, SAE J20 R1 HT Class A and MILSPEC A-A-52426 Type I and II.
- Wire reinforcement can be customised to meet vacuum requirements in accordance with SAE J20 R4 Class A.
- Silicone rubber used in compliance with the RoHS Directive 2002/95/EC and its subsequent amendments including the RoHS2 Directive 2011/65/EU and RoHS3 Directive 2015/863.

**TECHNICAL SPECIFICATIONS**

POLYESTER reinforcement							
Inner Diameter		Wall thickness		Working Pressure		Bursting Pressure	
				ISO 1402		ISO 1402	
mm	inch	+1/ -0.5 mm	+0.04/ -0.02 inch	Bar at 20°C	Psi at 68°F	Bar at 20°C	Psi at 68°F
6	1/4	5.50	0.20	27.3	395.6	81.8	1186.9
13	1/2	5.50	0.20	21.4	310.0	64.1	930.0
19	3/4	5.50	0.20	18.5	268.0	55.4	804.0
25	1	5.50	0.20	16.4	237.6	49.1	712.8
32	1 1/4	5.50	0.20	14.5	210.3	43.5	630.8
38	1 1/2	5.50	0.20	13.2	191.2	39.6	573.7
40	1 9/16	5.50	0.20	12.8	185.6	38.4	556.7
45	1 3/4	5.50	0.20	11.9	172.5	35.7	517.6
51	2	5.50	0.20	10.9	158.7	32.8	476.0
57	2 1/4	5.50	0.20	10.1	146.3	30.3	439.0
63	2 1/2	5.50	0.20	9.3	135.3	28.0	405.8
70	2 3/4	5.50	0.20	8.5	123.6	25.6	370.8
76	3	5.50	0.20	7.9	114.5	23.7	343.5
80	3 1/8	5.50	0.20	7.5	108.8	22.5	326.4
90	3 1/2	5.50	0.20	6.6	95.8	19.8	287.3
102	4	5.50	0.20	5.6	81.9	16.9	245.7

META-ARAMID reinforcement							
Inner Diameter		Wall thickness		Working Pressure		Bursting Pressure	
				ISO 1402		ISO 1402	
mm	inch	+1/ -0.5 mm	+0.04/ -0.02 inch	Bar at 20°C	Psi at 68°F	Bar at 20°C	Psi at 68°F
6	1/4	5.50	0.20	27.2	393.8	81.5	1181.5
13	1/2	5.50	0.20	20.1	290.8	60.2	872.5
19	3/4	5.50	0.20	16.6	240.3	49.7	720.8
25	1	5.50	0.20	14.0	203.7	42.1	611.1
32	1 1/4	5.50	0.20	11.8	170.8	35.3	512.5
38	1 1/2	5.50	0.20	10.2	147.9	30.6	443.8
40	1 9/16	5.50	0.20	9.7	141.1	29.2	423.3
45	1 3/4	5.50	0.20	8.6	125.4	25.9	376.2
51	2	5.50	0.20	7.5	108.3	22.4	325.0
57	2 1/4	5.50	0.20	6.9	100.0	20.7	300.0
63	2 1/2	5.50	0.20	5.7	83.3	17.2	250.0
70	2 3/4	5.50	0.20	4.6	66.7	13.8	200.0
76	3	5.50	0.20	4.6	66.7	13.8	200.0
80	3 1/8	5.50	0.20	4.4	64.1	13.3	192.3
90	3 1/2	5.50	0.20	4.0	58.3	12.1	175.0
102	4	5.50	0.20	3.4	50.0	10.3	150.0

# CONTACT



**IMPORTANT:** The Company reserves the right to change, amend, modify, suspend, continue or terminate all or any part of this Document at any time without notice. It is the user's responsibility to ensure the suitability and safety of the VENAIR products for all intended uses. All the tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of the hoses in any particular application.

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