

# Corroline<sup>+</sup> Specifications & Properties

## Specifications for Corroline<sup>+</sup> Hose Grades

Nominal Hose Size		Actual Bore Size		Outside Diameter		Maximum Working Pressure		Minimum Bend Radius		**Maximum Continuous Lengths		Weight per Unit Length	
in	mm	in	mm	in	mm	psi	bar	in	mm	ft	mtrs	Kg/Mtr	lb/ft
1/2 *	12.7	0.51	13.0	0.85	21.5	1000	69	1 3/8	35	100	30	0.40	0.27
3/4 *	19.1	0.76	19.4	1.12	28.5	1000	69	2	50	100	30	0.70	0.47
1	25.4	1.01	25.7	1.45	37.0	600	41	2 3/4	70	100	30	1.10	0.74
1 1/4	31.8	1.26	32.0	1.75	44.6	550	38	3 5/16	100	100	30	1.60	1.07
1 1/2	38.1	1.51	38.5	2.03	51.7	500	34	4 3/4	120	100	30	1.92	1.29
2	50.8	2.00	51.0	2.55	65.0	400	28	5 15/16	150	100	30	2.80	1.88

\* The 1/2" and 3/4" size hoses do not include the 2 helical wires embedded in the rubber

\*\* Longer lengths may be available, to special order

- **Pressure and Temperature Limitations**

**Maximum Working Pressures** - as listed above apply from -40°C (-40°F) up to the maximum operating temperature of 140°C (284°F).

**Burst Pressures** - The hose burst pressures are equal to or more than the maximum working pressures × 4.

- **Vacuum Limitations**

Usable at full vacuum up to 140°C/284°F.

- **Flexibility**

Much less force to bend than any other smooth bore PTFE lined hose product.

- **Kinkproof**

Much more resistant to kinking than any other smooth bore PTFE lined hose product, and much more kink resistant than the previous Corroline product.

- **Fire resistance**

Corroline<sup>+</sup> hose is Fireproof to BS5173 Section 103.13 Parts 6.2 and 6.3, and Corroline<sup>+</sup> hose assemblies can be upgraded to Fireproof by applying DBK 300 at each end (see pg 11). All assemblies comply with the flammability requirement as set out in BS.EN.12115.

- **'Rolling U' Flex Life Test**

More than 100 × the flex life to failure compared with all other types of smooth bore PTFE, FEP and PFA lined rubber covered hose products.

- **Flow rates**

More than 2 times the flow rates for convoluted bore hose designs. Consult Aflex Hose for specific flow rate information.

- **Gas permeability**

Reduced gas permeability compared with other PTFE lined hose designs, due to the heavy compression applied to the PTFE during processing, which reduces porosity.

