

CORROLINE⁺

耐化学药品性能

自净性能

柔软性

耐扭曲性能

防火性



PTFE Lined Hose for the Chemical Industry

CORROLINE+

CORROLINE+ 具备化工设备用途的所有条件，根据化工工场用途改良了必需柔软性能。

Corroline hose was designed and developed to provide customers with a universal chemical hose product which combined all the requirements they had requested for chemical plant applications, particularly the need for improved flexibility.

◆ 构造

CORROLINE+是经过充分研究以后开发制造的具有专利的PTFE翻边软管。这种内表面平滑外表面波纹形状的构造与加强环的强度连动，能够创造出最佳的柔软性能。另外，加上强化不锈钢螺旋钢丝和不锈钢网套，提高了其防止扭曲及弯曲，以及抗压和抗真空的能力。表层平滑的黑色防静电EPDM橡胶外套覆盖在不锈钢网套层上，2根螺旋钢丝被包裹在内，以提高软管的耐扭曲性能。为了保持清洁，橡胶表面经过精细镜面处理，在防止静电的同时，该橡胶外套还使软管具备了（防火性）。

CONSTRUCTION

Corroline+ is built around a patented PTFE hose liner design, which is smooth bore inside but convoluted outside to generate excellent flexibility combined with "hoop strength". A stainless helical wire and stainless steel wire braid reinforcement add to the kink resistance, crush resistance and the resistance of the hose to both pressure and vacuum. A smooth finish black antistatic EPDM rubber cover is extruded over the braid, which includes two helical reinforcement wires encapsulated in the rubber cover which render the hose kinkproof. The rubber cover has a mirror smooth surface finish to aid cleaning, and the antistatic rubber is specially compounded to make the hose 'fireproof'.

◆ 名称

CORROLINE+的构造如下：

软管内衬

GP： 广泛用途PTFE软管 AS： 防静电型PTFE软管

软管网套

RC： 表层平滑的黑色防静电，防火性的EPDM橡胶外套，覆盖在不锈钢网套层上。
软管口径为1寸至2寸，2根螺旋钢丝被包裹在橡胶外套内。

DESIGNATION

The Corroline+ hose construction options are designated as follows:

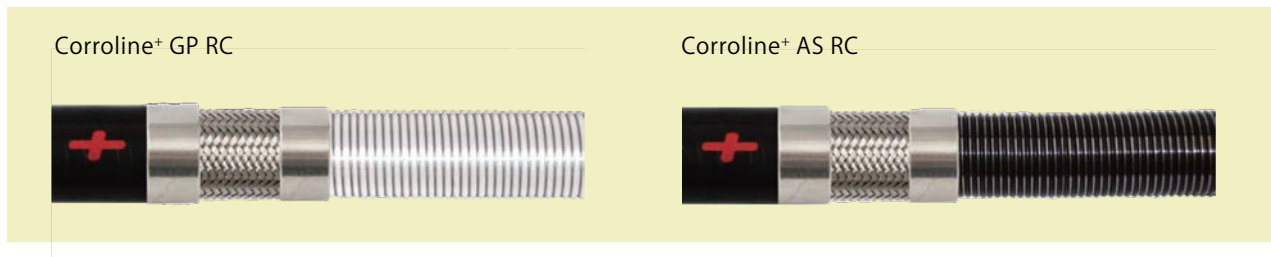
Hose liners

GP： Natural (general purpose) PTFE tube line AS： Antistatic PTFE tube liner

Hose braids

RC： Stainless steel wire braid EPDM rubber cover

An outer cover of abrasion resistant, blue antistatic EPDM rubber is extruded on to the braid, with a super-smooth surface finish to aid external cleaning.



软管口径 Hose Size	软管内径 Bore Size	软管外径 Outside Diameter	最小弯曲半径 Minimum Bend Radius	最大使用压力 Maximum Working Pressure	最大能制造的软管长度 Max cont. length
in	mm	mm	mm	MPa	m
1/2*	13.0	RC 21.5	35	6.9	30
3/4*	19.4	RC 28.5	50	4.3	30
1	25.7	RC 37.0	70	4.1	30
1-1/4	32.0	RC 44.6	100	3.8	30
1-1/2	38.5	RC 51.7	120	3.4	30
2	51.0	RC 65.0	150	2.8	30
2-1/2	63.7	RC 80.5	300	2.0	18
3	76.8	RC 92.8	350	1.5	15

* 1/2"、3/4"口径软管的橡胶外套内没有缠绕螺旋钢丝。

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

CORROLINE GP SS ~PTFE翻边的一体型软管~

CORROLINE GP SS - PRFE lined Flexible Hose -

表层平滑的黑色防静电，防火性的EPDM橡胶外套
Smooth finish black antistatic, fireproof EPDM rubber cover

软管口径为1寸至2寸，
2根螺旋钢丝
被包裹在橡胶外套内
1" to 2" bore sizes include
2 Helical Wires encapsulated in
Rubber Cover.

不锈钢网套
Stainless steel wire braid

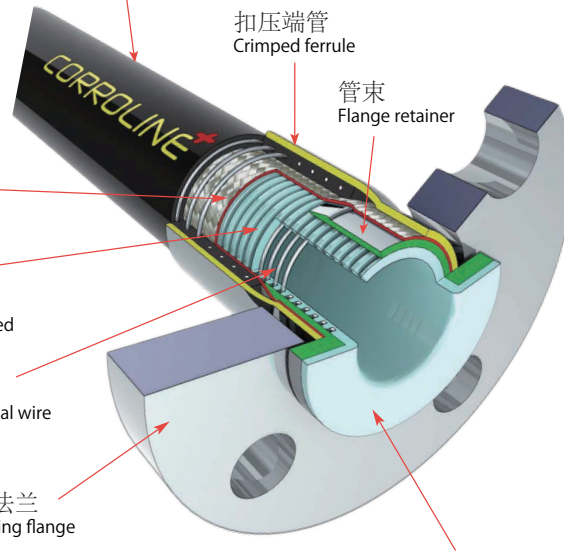
外侧为波纹形状的
PTFE 喉管
PTFE liner externally convoluted

螺旋不锈钢丝
Stainless steel helical wire

松套法兰
Swivelling flange

扣压端管
Crimped ferrule

管束
Flange retainer



其它接头也备有。

* 松套法兰 扣压型
* 卫生卡箍

Other end fittings are available.

* Non-lined type flange
* Sanitary triclover fitting

密封面是翻边加工的 PTFE 软管
PTFE liner tube flared out to form the sealing face

外部保护构造

根据需要，可以增加外部保护构造。外部保护构造的备有如下。

- * 双层软管末端保护用途的橡胶外套
- * 防止摩擦用途的HDPE螺旋包套
- * 螺旋状重厚外部保护不锈钢丝圈

EXTERNAL PROTECTION SYSTEMS

If required, additional external protection systems can be applied to special order. These include:

- * Double Rubber Cover hose end protection cuffs.
- * Ceramic Fibre and Silicone Rubber Fire Sleeve.
- * HDPE spiral-wrap for abrasion protection.
- * Helically wound, heavy gauge Stainless Steel Wire outer protection coil.

压力试验

软管交货前，选择软管或接头较低的最大压力为基准，以它的1.5倍的压力对全套组装软管实施水压试验。根据需要能发行试验证明书。

PRESSURE TESTING

Before despatch, all hose assemblies are hydrostatically pressure tested to 1.5 times the Maximum Working Pressure of either the hose or the end fitting, whichever has the lower M.W.P. A Test Certificate can be issued if required.

压力及温度

	软管内部	最大使用温度的限度
RC	-40°C ~ +140°C	软管的破坏压力为最大使用压力的4倍以上

PRESSURE AND TEMPERATURE LIMITATIONS

	Internal Temperature Range	Burst Pressure
RC	-40°C to +140°C/ -40°F to +284°F	The hose burst pressures are equal to or more than the maximum working pressures x 4.

真空限定

完全真空环境的可能使用温度达140度（内部温度）。

VACUUM LIMITATIONS

Useable at full vacuum up to 140°C/284°F internal temperature.

防火性

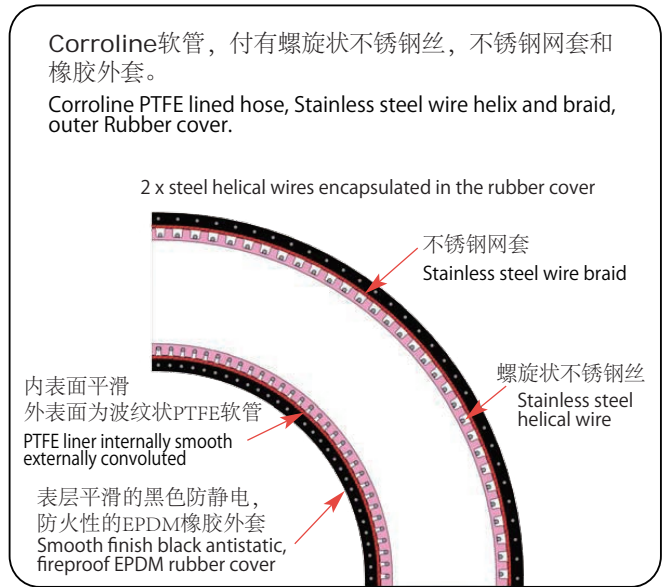
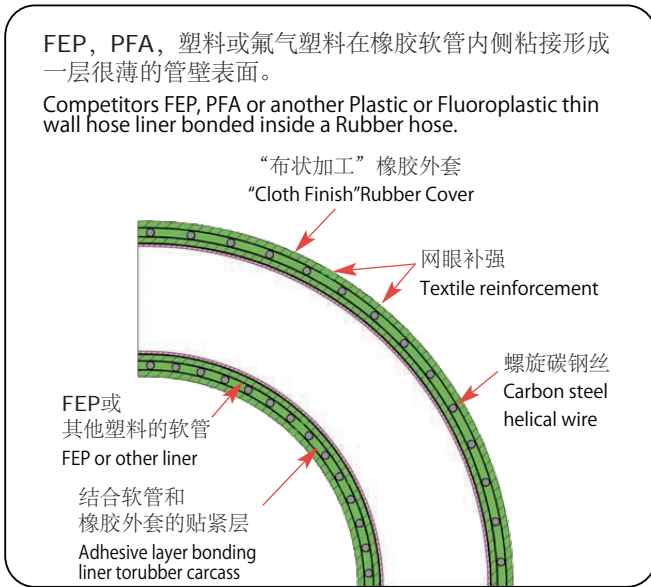
Corroline+软管的防火性能依照BS5173-103.13的6.2、6.3。

FIRE RESISTANCE

Corroline+ hose is Fireproof to BS5173 Section 103.13 Parts 6.2 and 6.3.

跟现有的软管比较

Comparison with The existing Chemical Hose Products



	其他公司产品 Competitors's Products		Corroline+	
加工流体的污染危险性 Process Fluid Contamination Risk	风险高 · 导致管壁破漏，软管材料会渗入及污染加工流体。 High Risk · Adhesive layer can leach in to contaminate the process fluid through pinholes in the liner, caused by static discharge, hose kinking etc.	×	没风险 · 没有粘接层 · 现在的软管构造上使用的材质没有不是美国食品医药局认定的。 No Risk · no adhesive layer · no non-FDA approved materials present in the hose construction	○
柔软性 Flexibility	一般或更差 · 坚硬，最小弯曲半径大。 Fair to Poor · Stiff, large minimum bend radius	×	良好 · 更柔软，拥有更小的最小弯曲半径。 Good · More flexible, reduced minimum bend radius	○
弯曲寿命 Flex Life *(“弯曲U字”试验) ("Rolling U" Test)	差 · 通常破损在1000~7000 Poor · Typically from 1,000 to 7,000 cycles to failure	×	优秀 · 没有破坏能来回转100,000回以上 Excellent · 100,000+ cycles without failure	○
扭曲抵抗力 Kink Resistance	良好 Good	△	优秀 Excellent	○
螺旋钢丝 Helical Wire	碳钢 (会造成腐蚀) Carbon Steel (can corrode)	△	不锈钢 SUS304 Stainless Steel	○
切断或贯通对抗力 Cut Through or Puncture Resistance	一般 Fair (网状保护网套) (Textile Braid Protection)	△	良好 Good (不锈钢丝保护网套) (Stainless Steel Wire Braid Protection)	○
根据FDA规制 抗静电软管品质 Antistatic Liner Quality To FDA Requirements (未满足2.5%的高纯度碳素) (<2.5% High Purity Black)	大部份含有2.6%以上的碳素，不能均等分散。结果造成碳素凝集，污染加工流体。 Often more than 2.5% Black, often unevenly dispersed, leading to carbon agglomerates which contaminate Process Fluid.	×	一直含有未满足2.5%的碳素，均匀分散并保证没有凝集状态。 Always less than 2.5% Black, very evenly dispersed and guaranteed agglomerate-free	○
防火性 Fire resistance	防火性试验无认证 No tested or approved to be fireproof.	×	防火性试验已实施 BS73-103.13认证 Tested and approved 'Fireproof' to BS5173 Section 103.13	○

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