

# CODEFLEX\*

## SUPRENE FIRST AID FIRE REEL HOSE - FRH/prEN694 series

### Special Features

- Abrasion resistance - excellent
- Made from Cadmium free materials
- Resistance to a wide range of chemicals (see Chemical Resistance Table)
- Outstanding U.V. / Ozone resistance
- Silicone free
- Ageing - outstanding resistance
- Good flexibility



### General Description

**Codeflex Suprene** First Aid Reel hose to prEN694 is yet another example of a quality product borne out of a desire to move towards European standardisation and encompasses our long term materials and hose technology development. As Europe's leading manufacturer of First Aid Fire Reel hose we were the first to receive accreditation from the B.S.I. for prEN694 **Suprene** First Aid Fire Reel hose. We have continued to exploit the benefits of rubber and PVC to produce a Rubber P.V.C. Alloy (T.P.E.).

This addition to the **Codeflex Suprene** range feels and looks like rubber without some of the negative aspects generally associated with rubber, typical of these is resistance to ozone and U.V. As you will find from information given overleaf, our **Codeflex Suprene** Fire Reel Hose exceeds the requirements laid down by prEN694 specification in all areas.

## TECHNICAL DATA

### CODEFLEX SUPRENE FIRST AID FIRE REEL HOSE FRH/prEN694

(U.K. And European Sizes)

Product Ref	Size		Weight per coil kgs	Working Pressure	Burst Pressure
	I.D.	O.D.		3:1 Safety Factor	
FRH19/694	19	26	14.23	12	42 bar
FRH25/694	25	34	20.00	12	42 bar
*FRH33/694	33	42.5	25.00	7	24 bar

Colour: Black inner / red outer

Stock Lengths: 30m

\*min mfg. runs



# TECHNICAL DATA

## CODEFLEX SUPRENE FIRST AID FIRE REEL HOSE FRH/prEN694

(U.K. And European Sizes)

### Scope & Field of Application:

The European standard specifies the requirements and the tests for semi-rigid reel hoses for first aid, fire fighting purposes. The hoses are intended for use at a maximum working pressure of 1.2 MPa (12 bar) for hoses of 19 and 25mm bore and 0.7 MPa (7 bar) for hoses of 33mm bore.

Hoses complying with this standard are intended for applications where long intervals can occur between the occasions of use, e.g. on fixed fire hose reels in buildings and other construction works.

The standard applies exclusively to delivery hoses intended for use at ambient conditions in non-aggressive atmospheres within the temperature range -20°C to +60°C.

### Construction:

Type A hoses shall consist of:

- a seamless elastomeric rubber or plastics lining;
- a textile reinforcement;
- an elastomeric rubber or plastics cover.

Type B hoses shall consist of:

- a seamless elastomeric rubber or plastics lining;
- a circular seamless woven textile with a rigid spiral;
- uncoated or elastomeric rubber or plastics cover.

### Dimensions & Tolerances:

Bore:	19	+ 1.0 / - 0.5mm
	25	+/- 1.0mm
	33	+ 1.5 / - 1.0mm

### Max. mass (kg/m)

Type A	0.75	0.90	1.00
Type B	0.25	0.35	0.50

### Hydrostatic Pressure Requirements:

	19 and 25mm bore	33mm bore
Design working pressure	12 bar	7 bar
Proof pressure	24 bar	14 bar
Burst pressure	42 bar	24.5 bar
Change in diameter at design working pressure	+ 7.5% - 0	+ 7.5% - 0
Change in length at design working pressure	+ 7.5% - 0	+ 7.5% - 0
Twist at design working pressure	The hose shall not twist more than 0.5 radians (29°) per metre in a direction which loosens couplings when tested. The twist can be greater than 0.5 radians/m if in a direction which closes the coupling.	

### Adhesion:

Between layers 1.5 kN/m - Type A      1.0 kN/m - Type B

### Kink Test:

No signs of leaks or deformation when hose is kinked at working pressures.

### Bend Test:

19mm and 25mm diameter hoses shall be wound round a mandrel of 200mm diameter and 280mm for 33mm diameter hose. A load of 45 N (4.59 kg) shall be applied to the free end for 5 minutes. The ratio of the resulting major axis to the original diameter shall not be greater than 1.2.

### Low Temperature Flexibility:

Hose shall be capable of being bent through 180° round a mandrel of diameter equal to 12 times its nominal bore at -20°C without breaking or showing signs of cracking.

### Hot Surface Resistance:

The hose shall not leak when under working pressure with a rod held under a force of 4N (0.4 kg) and at a temperature of 200°C against it for at least 30 seconds and up to 3 minutes.



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