

## 2.10 | Temperature Capability

### Temperature rating

The Stainless steel corrugated hose is suitable for temperatures up to 600 deg c or in cryogenic application down to - 200 deg c. The stainless steel hose will convey most liquid and gas up to the working pressure stated as per the temperature correction chart below. The hose provides a long service life, high physical strength with excellent corrosion characteristics with resistance to fire, penetration and damage resistance.



### Temperature Correction factor

The recommended maximum working pressure rating of stainless steel hose is at a temperature of 20 deg Celsius. Where hoses are required to operate at a temperature above 20deg Celsius, a correction factor should be applied to the specified working pressure of the selected hose. The correction factor is given in table 2.

| Temp. ( C) | Corr. Factor |
|------------|--------------|
| -200       | 1.0          |
| -150       | 1.0          |
| -100       | 1.0          |
| -50        | 1.0          |
| 0          | 1.0          |
| 20         | 1.0          |
| 50         | 0.95         |
| 100        | 0.83         |
| 150        | 0.75         |
| 200        | 0.69         |
| 250        | 0.65         |
| 300        | 0.61         |
| 350        | 0.58         |
| 400        | 0.56         |
| 450        | 0.54         |
| 500        | 0.53         |
| 550        | 0.52         |
| 600        | 0.34         |
| 650        | 0.19         |
| 700        | 0.10         |

### Cover/Armour

To protect the Stainless steel hose from unusual external abuse you can use different armours and covers such as: stainless steel interlock, heat shrink, lay-flat, scuff guarding, fire sleeve, fibre glass tape, PVC, rubber and also wire spring-guard.

#### Fibre glass tape and sleeve cover



#### Wire spring guard



#### Scuff guard



#### Stainless steel interlock cover



#### Layflat cover



#### PVC covering

