

CRYOLENE

THERMAL INSULATION OF LOW TEMPERATURE STORAGE TANKS.

DESCRIPTION : CRYOLENE is a glass wool resilient blanket. It can be faced on one side with a reinforced glass tissue (V.V) or a reinforced aluminium foil (A.A).
CRYOLENE 681 is designed for suspended deck insulation.
CRYOLENE 682 is designed for tank shell insulation.

APPLICATION : CRYOLENE is supplied in rolls for use as a resilient thermal insulation of all types of storage tanks and vessels operated at cryogenics temperature.
CRYOLENE is suitable for use with Perlite.

CHARACTERISTICS :

| CRYOLENE | Tolerances | Standard | 681 | 682 | 684 |
|------------------------------|------------|----------|---|--------------------------|-------------------------|
| Binder content (%) | ± 0.8% | - | 4.5% | 7% | 4.5% |
| Density (kg/m ³) | ± 5% | EN 1602 | 12 | 17.5 | 24 |
| Thickness (mm) | | EN 823 | 50 to 175 (-0 +15 mm) | 50 to 150 (-0 +15 mm) | 50 to 120 (-0 +5 mm) |
| Width (mm) | ± 5 mm | EN 822 | 1200 | 1200 | 1200 |
| Length (mm) | -0 +200 mm | EN 822 | Depending on thickness and type of facing | | |

- **Resilience properties:** CRYOLENE 682 (Tests are conducted in accordance with the SNCMP method)

| LOAD KN/m ² | Limit values of thickness under load expressed as a percentage of the nominal thickness | | |
|---------------------------|--|---------|---------|
| | Average required | Minimum | Maximum |
| 0.5 | 65 | 59 | 71 |
| 1.0 | 50 | 44 | 56 |
| 2.5 | 35 | 29 | 40 |
| 4.0 | 29 | 25 | 33 |

- **Tensile strength:**
 - Reinforced Glass Tissue 35g/m² (V.V.): nominal = 80 N/50mm MD
 - Reinforced Aluminium Foil 18µm with Glass Scrim 2x2 (A.A.): 250 N/50mm MD (MD = Machine Direction) – (Data sheets of facings available upon request)

The facing gives the CRYOLENE blanket its tensile strength.
- **Packing:** shrink polythene wrapped, plus polythene bags (SPL).
- **Fire rating:** Euroclass Classification (being carried out):
With glass tissue (V.V.): A1 – With Aluminium Foil (A.A.): A2-s1,d0.
- **Thermal conductivity:** W/(m.K)

| | Standard EN 12667 | Standard ISO 8302 * | | |
|---------------------|-------------------|---------------------|---------|---------|
| | 10°C | - 50°C | - 100°C | - 170°C |
| CRYOLENE 681 | 0.038 | 0.026 | 0.019 | 0.022 |
| CRYOLENE 682 | 0.035 | 0.024 | 0.018 | 0.020 |

* FIW test reports No F.2-1002a/04 & F.2-954a/04

- **Temperature range:** - 170 °C to 120 °C.
- **Corrosiveness:** meets requirements for use with aluminium, steel or copper.
- **Water resistance:** non hygroscopic.
- **Fungus resistance:** does not breed or promote growth.
- **Material Safety Data Sheet:** available on request.

The information contained in this data sheet is of a general nature and individual users may choose their own method of application. For any particular problem please contact us to assure current information.