

CRYOLENE

THERMAL INSULATION OF LOW TEMPERATURE STORAGE TANKS AND VESSELS

DESCRIPTION : CRYOLENE is a specific glass wool blanket dedicated for LNG and other liquid gaz storage facilities (Ethylene, Ammonia, Butane...), and pipes resilient joints.

It is faced on one side with a reinforced glass tissue (VV) or a reinforced aluminium foil (AA).

- **CRYOLENE 681 VV / CRYOLENE 681 V1, CRYOLENE 681 AA / CRYOLENE 681 Alu2** is designed for suspended deck insulation.
- **CRYOLENE 682 VV / CRYOLENE 682 V1, CRYOLENE 682 AA / CRYOLENE 682 Alu2** is designed for tank shell insulation (resilient blanket).
- **CRYOLENE 684 VV / CRYOLENE 684 V1, CRYOLENE 684 AA / CRYOLENE 684 Alu2** is designed for resilient joints on insulated connection pipes.

APPLICATION : On suspended decks: rolls are installed in different layers cross-joints.

On tank shell: rolls are butt together by any adapted technique to match the total high of tank and fixed at upper part by suitable clamps or specified fixations: special roll lengths are available upon required to suit; Perlite is commonly used as complementary insulation in between CRYOLENE and external tank structure.

On pipes: insulation thickness is same as rigid insulation pipes; resilient property is longitudinal.

CHARACTERISTICS : CE marked according to EN 14303 (Dop available for European markets)

CRYOLENE	681 VV (681 AA)	682 VV (682 AA)	684 VV (684 AA)
Density (kg/m ³)	12	18	24
Thickness (mm) tolerance	50 to 175 T1	50 to 175 T3	50 to 130 T2
Reaction to fire	A1 (A2,s1d0)	A2,s1d0 (A2,s1d0)	A1 (A2,s1d0)
Thermal conductivity [W/(m.K)]			
at -150 °C	0,015	0,013	0,013
at -120 °C	0,019	0,017	0,017
at -100 °C	0,021	0,019	0,019
at - 50 °C	0,028	0,026	0,026
at +0 °C	0,037	0,034	0,034
at +10°C	0,039	0,036	0,036

• **Dimensions:**

CRYOLENE are available in different lengths and widths upon require

• **Resilient properties:**

CRYOLENE 682 according to SNCMP method

• **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)

The facing gives the CRYOLENE blanket its tensile strength.

• **MOQ:**

Some Minimum Order Quantities may be required.

• **Packing:**

Shrink polyethylene wrapped, plus polyethylene bags (SPL) closed by wire for easy handling and optimized freight costs (trucks - containers).

• **Storage:**

Rolls must be stocked vertically. For best resilient characteristics, all CRYOLENE references should not be stocked packed more than 3 months.

• **Temperature range:**

- 170 °C to 120 °C.

• **Corrosiveness:**

Compatible with all materials

• **Water resistance:**

Non hygroscopic.

• **Fungus resistance:**

Does not breed or promote growth.

• **Safe Use Instruction Sheet:** Available upon request.

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