



CRYOLENE 682 AA&VV

Resilient glass mineral wool blankets engineered for cryogenic tank walls

Design specifications for storage tanks containing cryogenic fluid such as liquefied natural gas (LNG), ethylene or nitrogen for chemical or combustion processes, are not only highly demanding in terms of construction, but also in terms of insulation. With the tank volume expanding and contracting depending on the level of liquid inside, the insulation must offer high levels of both compressibility and resilience. To meet this requirement, ISOVER has developed the unique CRYOLENE product range.

CRYOLENE 682 has been designed for the insulation of cryogenic tank walls. The properties and performance of CRYOLENE 682 have been extensively tested by external institutes and the products are well-proven through decades of successful use worldwide in chemical and LNG applications.

HIGH FLEXIBILITY



High resilience and flexibility designed to meet the mechanical demands of cryogenic tanks during its full operational lifetime

IMPROVED LOGISTICS



Transport and storage savings with up to 80 % more material per pallet than standard solutions

FAST INSTALLATION



Flexibility, lightweight and long-length with high tensile-strength facing helps to handle and install CRYOLENE 682 rolls easier and faster

THERMAL INSULATION



Excellent thermal insulation performance at cryogenic temperatures

LIGHTWEIGHT



Lightweight solution with up to 50 % weight savings compared to standard insulation solutions



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES						STANDARD
Thermal conductivity	T	[°C]	-150	-120	-100	-50	0	10	EN 12667 EN ISO 13787
	λ	[W/(m•K)]	0.013	0.017	0.019	0.026	0.034	0.036	
Thermal behaviour	T	[°C]	Operating temperature range -170 °C until + 120 °C						-

CHARACTERISTIC	SYMBOL	UNIT	B	C	D	E	STANDARD
Resiliency	-	kN/m²	0.5	1	2.5	4	SNCMP method
		% (load)	65	50	35	29	

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES						STANDARD
Specific thermal capacity	c	kJ/(kg•K)	1.03						ISO 10456
Reaction to fire	-	-	Non combustible; Euroclass A2-s1, d0 Fire Spread Index < 25; Smoke Development Index < 25						EN 13501-1 ASTM E84
Water behaviour	WS	kg/m²	No short term water absorption by partial immersion (WS1 ≤ 1 kg/m2)						EN ISO 29767
Tensile strength	-	-	682 VV: reinforced glass veil 682 AA: reinforced aluminium foil The facing contributes to provide the CRYOLENE blanket its tensile strength						-
Chemical behaviour	-	-	Do not contribute to corrosion of stainless steel						ASTM C795/871
Application field	-	-	Product for use in cryogenic applications, such as Liquid Natural Gas storage tanks Shall be enclosed in vapor and water tight construction Non compatible with liquid oxygen						EN 14303
Material	-	-	CRYOLENE products are highly resilient glass mineral wool rolls designed to retain their fibers elasticity over time at temperatures ranging from -170 °C to +120 °C With quality marks EUCEB and RAL by the Gütegemeinschaft Mineralwolle e. V., unrisky regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to regulation EC No 1272/2008 Note Q						CINI 2.1.02
Facing	-	-	682 VV: faced with a yellow glass veil 682 AA: faced on one side with reinforced aluminum						-
Miscellaneous	-	-	Storage: Rolls must be stocked vertically For best resilient characteristics, all CRYOLENE references should not be stocked more than 3 months Designation code : MW-EN 14303-T3-WS1						EN 14303
Quality management	-	-	CE-marked according to EN 14303 ISOVER is certified according to EN ISO 9001 and EN ISO 14001						EN 14303 EN ISO 9001 EN ISO 14001
Delivery form	-	-	Please contact your local ISOVER dealer All dimensions require minimum order quantities						-



www.isover-technical-insulation.com

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