



CRYOLENE 682 AA&VV

Resilient glass mineral wool blankets engineered for cryogenic tank walls

Design specifications for storage tanks containing cryogenic fluids such as liquefied natural gas (LNG), ethylene or nitrogen for chemical or combustion processes are highly demanding, both in terms of construction and insulation. With tank volumes expanding and contracting depending on liquid levels, the insulation must offer high compressibility and resilience.

To meet this requirement, ISOVER has developed the unique CRYOLENE product range. CRYOLENE 682, available in rolls up to 40 m long for faster installation with fewer joints, 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.

FAST INSTALLATION



CRYOLENE 682 is lightweight and flexible, making it easy to handle and install. With rolls up to 40 m long, it covers large surfaces in one go, reducing joints and speeding up installation.

IMPROVED LOGISTICS



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

HIGH FLEXIBILITY



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

THERMAL INSULATION



Excellent thermal insulation performance at cryogenic temperatures

LIGHTWEIGHT



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

CRYOLENE 682 AA&VV



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/m ²	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	-	-	682 VV : Euroclass A1 Non combustible; 682 AA : Euroclass A2-s1, d0 682 VV : Fire Spread Index < 0; Smoke Development Index < 0 682 AA : Fire Spread Index < 35; Smoke Development Index < 0						EN 13501-1 ASTM E84
Water behaviour	WS	kg/m ²	No short term water absorption by partial immersion (WS1 ≤ 1 kg/m2)						EN ISO 29767
Chemical behaviour	-	-	Do not contribute to corrosion of stainless steel						ASTM C795/871
Application field	-	-	Product for the storage of refrigerated and liquefied gases such as Liquid Natural Gas storage tanks						EN 14620-4
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: with a reinforced glass veil facing 682 AA: with a reinforced aluminium veil facing						-
Miscellaneous	-	-	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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