

TECH Slab HT 6.1

Premium-Plus performance rigid stone mineral wool slabs for high-temperature

TECH Slab HT 6.1 is the rigid stone mineral wool slab for the insulation of industry tanks and vessels, exhaust ducts and stacks or other equipment with a maximum service temperature of up to 700°C. It combines premium thermal and acoustic performance with high mechanical strength.

TECH Slab HT 6.1 is available (CI- ≥ 10 ppm) when in contact with austenitic steel structures.

Thermal Efficiency Indicator

8. extra plus

7. extra

6. premium plus

6.

5. premium

4. standard plus

3. standard

2. classic plus

1. classic



ENERGY EFFICIENCY

Premium-Plus thermal insulation performance at medium to higher service temperatures up to 700°C



HIGH SERVICE TEMPERATURES

Especially designed for high service temperatures up to 700°C



THIN SOLUTION

Personal protection and heat loss requirements achieved with up to 35% less insulation thickness than standard solutions



MECHANICAL RESISTANCE

Robust industry slab for optimal use in applications requiring high mechanical strength, e.g. by foot traffic



FIRE REACTION

Non-combustible, Euroclass A1 for effective fire protection on industry sites



NUCLEAR PLANT QUALITY

Certified for use in nuclear applications



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES									STANDARD
Thermal conductivity	T	[°C]	50	100	150	200	300	400	500	600	650	EN 12667 EN ISO 13787 ASTM C177
	λ	[W/(m·K)]	0.039	0.044	0.051	0.058	0.076	0.098	0.123	0.154	0.172	
Thermal behaviour	T	[°C]	Maximum service temperature 700 (under 500 Pa)									EN 14706

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							THICKNESS [MM]	STANDARD
Sound absorption*	α_p	Hz	α_{p_w}	125	250	500	1,000	2,000	4,000	-	EN ISO 11654 EN ISO 354
		-	0.90	0.20	0.84	0.81	0.90	0.98	1.05	50	
				0.66	0.69	0.82	0.95	1.02	1.09	100	
Airflow resistivity*	AFR (σ)	kPa·s/m ²	> 90								ISO 9053-1

* These values proceed from tests conducted in laboratory under certain given conditions. Real life conditions may differ due to various ambient and operational factors. These values are therefore representative and should only be used as a guide for estimation purposes. ISOVER takes no responsibility in the case of not achieving the required acoustical performance.

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 A1 Fire Spread Index = 0; Smoke Development Index < 20				EN 13501-1 ASTM E84
Water behaviour	WS	kg/m ²	No short term water absorption by partial immersion ($WS1 \leq 1 \text{ kg/m}^2$)				EN ISO 29767
Compressive strength	CS	kPa	CS(10)20				EN 826
Chemical behaviour	-	-	Do not contribute to corrosion of stainless steel Especially designed and certified for use in nuclear applications(P-MUC)				ASTM C795/871 PMUC
Application field	-	-	Product for use in technical applications, such as tanks and vessels, exhaust ducts and stacks or other equipment with need for excellent thermal and/or acoustic insulation and compression resistance at high process temperatures Especially designed and certified for use in nuclear applications				EN 14303 PMUC 09-0015
Material	-	-	Stone mineral wool heavy duty board With quality marks EUCB, unrisky regarding health according to regulation EC No 1272/2008 Note Q				CINI 2.2.01
Miscellaneous	-	-	Designation code : MW-EN 14303-T4-ST(+)700-CS(10)20-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 Standard width: 500 mm 600 mm 1,000 mm Standard thickness range: 30 mm until 120 mm Other dimensions on request				-



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