

HUALI-ROCK WOOL

● PRODUCT INTRODUCTION

HL-WMB rock wool wired blanket made from natural stone , melting at 1450 °C, centrifugal injection to kind of mineral fiber, add some thermosetting adhesives and additives etc, with the performance of non-combustible, non-toxic, low thermal conductivity, hydrophobic, sound absorption, etc. Wire mesh rock wool blanket is suitable for heat insulation, fire prevention and sound absorption and noise reduction of large pipe network, large storage tanks, containers, furnaces and air pipes, especially used for high temperature and vibration places or places with high requirements on fire prevention.

● PRODUCT PERFORMANCE

HL-WMB rock wool wired blanket is high temperature resistance, good hydrophobicity, high corrosion resistance and low thermal conductivity, can provide the highest level of protection against heat and energy loss in the field of building, commercial, petrochemical, power plants, industrial tanks and equipment, to avoid fire, noise and other harmful effects.



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● PRODUCT PACKING

HL-WMB rock wool wired blanket is packed in heat shrinkage PE film. It can be cut into any length and tightly wrapped on the insulation equipment. The edges need to be joined together, leaving no gaps, and held together with steel wire. HL-WMB can be fixed on the equipment with band or wire.

● PRODUCT SPECIFICATION

Thickness	HL-WMB 60	HL-WMB 80	HL-WMB 100	HL-WMB 120	HL-WMB 128	HL-WMB 150
25-50mm	5mx600mm	5mx600mm	5mx600mm	5mx600mm	3mx600mm	3mx600mm
50-100mm	3mx600mm	3mx600mm	3mx600mm	3mx600mm	3mx600mm	3mx600mm
Wire mesh	Galvanized or stainless steel 304/316 (1"x24# or 1"x22#)					
Optional width	1000mm or 1200mm					
Remark	Thickness above 100mm, recommend multi-layers					

● TECHNICAL DATA (ASTM C592)

Item name	Test Method	Standard Value	Test Value
Length Tolerance	ASTMC592-16	-0mm, excess permitted	3000-5000mm
Width Tolerance	ASTMC592-16	±12.7mm	600mm
Thickness Tolerance	ASTMC592-16	-0mm, excess permitted	25-100mm
Thermal conductivity 24°C	ASTMC592-16 ASTM C177-19	≤0.036 W/(m·K)	0.034 W/(m·K)
Thermal conductivity 93°C		≤0.049 W/(m·K)	0.042 W/(m·K)
Thermal conductivity 149°C		≤0.06 W/(m·K)	0.05 W/(m·K)
Thermal conductivity 260°C		≤0.092 W/(m·K)	0.07 W/(m·K)
PH	ASTM C795-08	< 12.5	8.4
Non-Fibrous (Shot) content(%)	ASTMC592-16	≤25	14
ω(Cl-)%	ASTMC795-08 ASTMC871-11	When ω(SiO32-)+ ω(Na+)=0.15%, ω(Cl-)+ω(F-)<0.019%	0.0004
ω(F-)%			0.0045
ω(SiO32-)%			0.14
ω(Na+)%			0.0071
Maximum Flame Spread Index	ASTM E84-18	≤ 25	0
Maximum Smoke-developed Index	ASTM E84-18	≤ 50	0
Water Vapor Sorption by Weight (%)	ASTMC592-16	≤5.0	1.4
Linear Shrinkage (%)	ASTMC592-16	≤4.0	2.28
Resistance to Fungi	ASTM C592-16 ASTMC1338	Growth no greater than that a comparative item	No growth apparent under 40 Times magnification
Severice Temperature	ASTMC592-16	No warping, flaming, glowing,Smoldering and smoking	650°C
Corrosiveness to Steel	ASTM C592-16 ASTM C665-17	> 21	35
Corrosiveness to Aluminum			27.5
Corrosiveness to Copper			24.5
Non-combustibility	EN13501+A1:2015		non-combustibility

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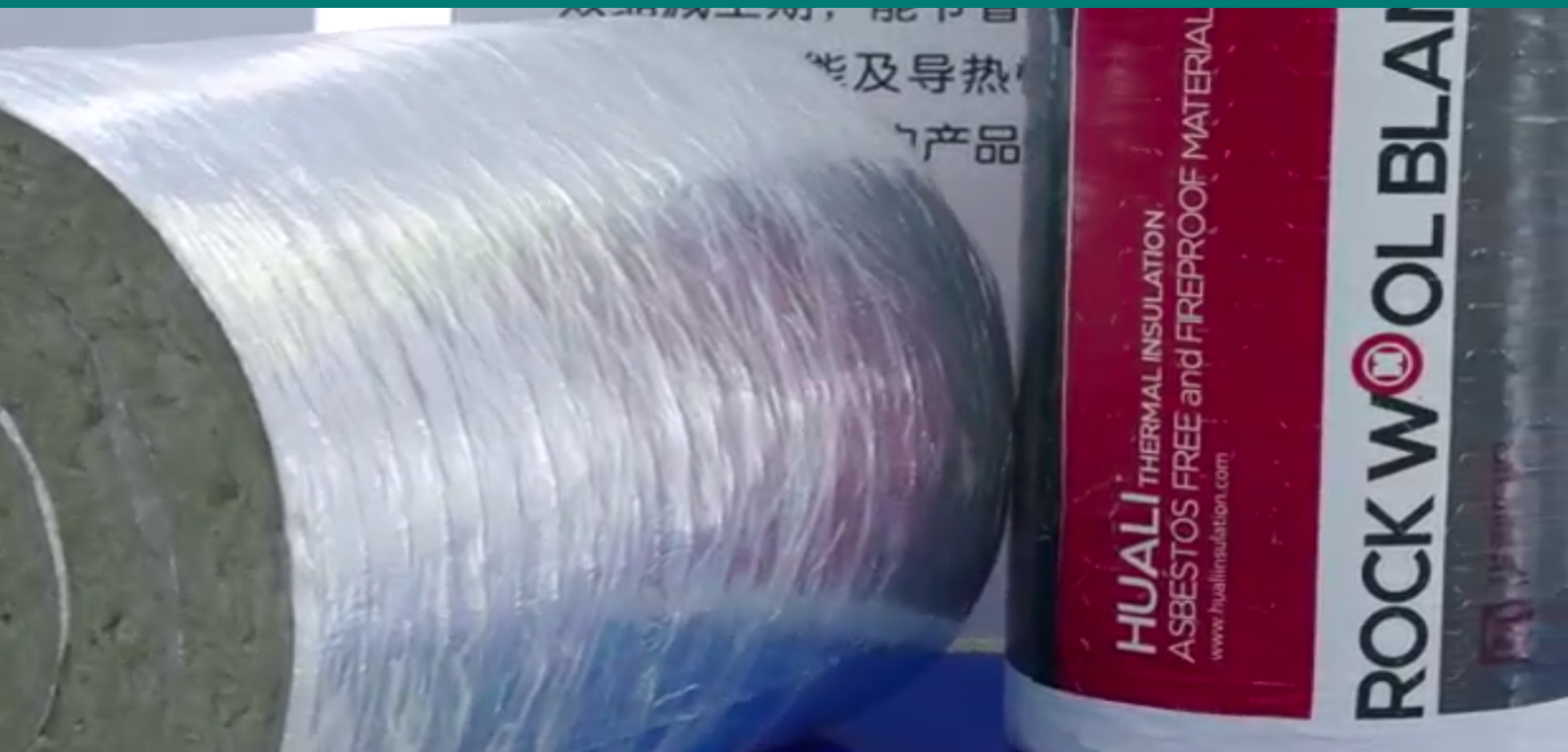
HL-B rock wool blanket is non-combustible and will not produce toxic smoke or promote flames spreading, It has excellent acoustical dampening properties. It is environment friendly and is used for the thermal insulation and acoustic application of the house building. HL-B should be fixed with galvanized steel wire or stainless steel wire, while used for piping or equipment

● PRODUCT SPECIFICATION

Thickness	HL-B 60	HL-B 80	HL-B 100	HL-B 120	HL-B 128	HL-B 150
25-50mm	3mX600mm	5mX600mm	5mX600mm	5mX600mm	3mX600mm	3mX600mm
50-100mm	3mX600mm	3mX600mm	3mX600mm	3mX600mm	3mX600mm	3mX600mm
Facing	Aluminum foil, black tissue etc or customized finish					
Optional width	1000mm or 1200mm					
Remark	Thickness above 100mm, recommend multi-layers					



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● TECHNICAL DATA

Item	Test Properties	Standard	Test Result
1	Density and Dimension	ASTM C 167	pass
2	Non-Fibrous (Shot) Content %	ASTM C 1335	15
3	Apparent Thermal Conductivity	ASTM C518	-4°C 0.030 W/(m·K) 24°C 0.034 W/(m·K) 38°C 0.036 W/(m·K) 93°C 0.042 W/(m·K) 149°C 0.050W/(m·K) 204°C 0.058W/(m·K) 260°C 0.070W/(m·K) 316°C 0.090W/(m·K) 371°C 0.102W/(m·K)
4	Maximum Use temperature and Exothermic Rise Temperature	ASTM C411 / ASTM C 447	650°C
5	Odor Emission	ASTM C 1304	No considered the odor was objectionable and strong.
6	Corrosion to Steel	ASTM C 665	36
7	Rigidity and Semi-rigidity	ASTM C 1101 / C 1101M	no visiable rupture in surface
8	Water Vapor Sorption	ASTM C 1104 / ASTM C 1104M	0.01
9	Surface Burning Characteristic Test	ASTM E84	0
10	Non-combustibility	EN13501+A1:2015	non-combustibility