INSULWOOL-ROCK MINERAL WOOL

IW-S

PRODUCT INTRODUCTION

IW-S is made from natural rock such as basalt and dolomite. The natural rock are melted into melts in cupola at a very high temperature about 1500°C. And the melts lava is then pour to high speed spinners through which the melts get into fibers. At the same time, the phenolic binder containing silicon and mineral oil etc are sprayed onto the surface of each fiber homogeneously. IW-S is suitable for heat insulation, fire prevention and sound absorption and noise reduction on the surface of storage tanks, containers, boilers and catheters with flat or large diameter curved surfaces. The fiber structure of the product makes the product have good dimensional stability and compression resistance

PRODUCT PERFORMANCE

IW-S has four perfect characteristics: 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 SPECIFICATION

Type	Length (mm)	Width (mm)	THK (mm)
IW-S 40	1000-1200	600-1200	50-100
IW-S 50	1000-1200	600-1200	50-100
IW-S 60	1000-1200	600-1200	25-150
IW-S 80	1000-1200	600-1200	25-150
IW-S 100	1000-1200	600-1200	25-150
IW-S 110	1000-1200	600-1200	25-150
IW-S 120	1000-1200	600-1200	25-150
IW-S 130	1000-1200	600-1200	25-150
IW-S 140	1000-1200	600-1200	25-150
IW-S 150	1000-1200	600-1200	25-120
IW-S 160	1000-1200	600-1200	25-120
IW-S 180	1000-1200	600-1200	25-100
FACING	Aluminum foil, black tissue, or customized finish		
REMARK	other specification , pls contact our sales		

TECHNICAL DATA （ASTM C612）

Item Name		Test Method	Standard Value	Test Value
Service Temperature		ASTMC612-14	No warping, flaming, glowing,Smoldering and smoking	650°C
Non-Fibrous (Shot) content (%)		ASTMC612-14 ASTM C1335-12	≤25	13.1%
Thermal Conductivity W/(m·k)	24°C	ASTM C612-14 ASTMC518-17 ASTM C177-19	≤0.035	0.034
	93°C		≤0.043	0.041
	204°C		≤0.061	0.053
	260°C		≤0.076	0.061
	371°C		≤0.108	0.082
Compressive Resistance at 10% deformation		ASTM C612-14 ASTM C165-07(2017)	≥2.4	21.0kPa
Semi-rigid or Rigid		ASTMC612-14	Semi-rigid or Rigid	Rigid
Flame Spread Index		ASTM C612-14 ASTME84-18	≤ 25	0
Smoke-developed Index		ASTM C612-14 ASTME84-18	≤ 50	0
Odor Emission		ASTM C612-14 ASTMC1101/C1101M-06	A detectable odor of Objectionable nature recorded by more than two of the five panel members shall constitute rejection of the material.	None of 5 members considered the odor was objectionable and strong.
Water Vapor Sorption by weight		ASTM C612-14 ASTMC1104/C1104M-19	≤5.0%	0.19%
Corrosiveness to Steel		ASTM C612-14 ASTMC665-17	≥21	36
Resistance to Fungi		ASTM C612-14 ASTMC1338-14	Growth no greater than that a comparative itemcomparative item	No growth apparent under 40 times magnification
Non-combustibility		EN13162:2012+A1:2015	The recorded temperature rise shall not exceed more than 30°C with no flaming and weight loss exceeding 5%	Non-combustibility