

GLASS WOOL PRODUCTION LINE

Glass wool is a kind of insulation material with excellent characters. It is made of natural ores such as quartz sand, dolomite, feldspar, limestone and so on, which are melted into glass fluid by adding in accessories such as calcined soda and borax and then drawn, bown or thrown into very thin fibers by external force under fusing state. As a kind of inorganic fiber, glass wool has the following basic characteristics:

1. Possessing good thermal insulation performance under both high and low temperature.
2. Neither burns, nor gives off harmful gas, so it is recognized as "statutory incombustible material" by many countries.
3. Possessing uniform resilience force.
4. Possessing sound-absorption performance from intermediate / low frequency to high frequency and excellent noise reducing effect.
5. With low moisture absorption rate under humid conditions.
6. With low coefficient of linear expansion.
7. With low aging rate, being able to maintain the original performance after long-time use.
8. Possessing excellent handling characteristics.



CE Certificate

Main Parameters:

ITEM	HIM-GW-3	HIM-GW-5	HIM-GW-8	HIM-GW-10	HIM-GW-15
Capacity, mt/a	3000	5000	8000	10000	15000
Workshop(LxW), m ²	75x15	85x15	90x15	95 x 20	100x25
Dimension (LxWxH), m ³	65x10x14	75x10x14	80x10x14	85x15x14	90x20x14
Weight, mt	180	190	200	210	300
Power, kw	630	750	950	1000	1300
Power Source	220V/380V, 50 Hz				

Advantage of Glass Wool Products:

ITEM	XPS	EPS	PU	Mineral Wool	Glass Wool
Thermal conductivity, w/(m·K)	0.03	0.041	0.02	0.044	0.038
Sound-absorption capacity	no	no	no	good	excellent
Density, kg/m ³	32 - 39	25 - 28	25 - 30	150-200	50-70
Water absorption (V/V), %	≤0.76	≤8	≤6	≤5	≤3.7
Combustibility	B2	B1	B3	noncombustible	noncombustible
Max using temperature, °C	75	80	140	600	350



Main Materials :

1. Quartz sand: Its main composition is SiO₂, content of which is more than 90%.
2. Feldspar: It can be classified into potash feldspand albite according to its chemical composition. Al₂O₃>15%, SiO₂<70%, Fe₂O₃<0.3%, R₂O>10%.
3. Dolomite: MgO>20%, CaO<32%, Fe₂O₃<0.15. Dolomite is water-absorbent, so it should be stored in dry places.
4. Calcined soda: Na₂CO₃>98%, NaCl<1%, Na₂SO₄<0.1%, Fe₂O₃<0.1%.
5. Borax (Na₂B₄O₇·10H₂O): B₂O₃>35%, Fe₂O₃<0.01%, Na₂SO₄<0.02%.
6. Limestone: CaO≥50%, Fe₂O₃≤0.15%.
7. Cullet: Broken and non-conforming glass products as well as glass chops made by chilling vitreous fluid in water, whether they are glass scraps produced in production or glass waste rejected in society, all can be used as raw materials for glass.

