

## **CCEWOOL® Research series alumina foil Ceramic Fiber Board**

### **Description:**

CCEWOOL® Research series aluminum foil ceramic fiber board is using special equipment and binder to bond the ceramic fiber blanket with alumina foil to form a composite products with integrated structure. The alumina foil is qualified with Europe standard, one-off adhesive and has good bond effect. One side, two sides and six sides aluminum foil are available.

### **Characteristics:**

- Ultra thin thickness range is 5 -10mm
- Low heat capacity, low thermal conductivity;
- Non-brittle material, good elasticity;
- High compressive strength;
- Excellent wind-erosion resistance, long service life;
- Excellent thermal stability and thermal shock resistance;
- Continuous production, even fiber distribution and stable performance;
- Good sound insulation;
- Good anti-stripping properties;
- Easily molded or cut, easy to install;
- Accurate sizes and good flatness

### **Application:**

Vessel, aerospace

**Technical data:**

<b>CCEWOOL® Research series alumina foil ceramic fiber board</b>					
Classification temperature	1050 (1920°F)	1260 STD (2300°F)	1260 HP (2300°F)	1400 (2550°F)	1430 HZ (2600°F)
Operation Temp(°C)	950	1050	1100	1200	1350
Permanent Linear Change on Heating (%)					
@950C,24hrs	4	-	-	-	-
@1200C,24hrs	-	3	3	-	-
@1300C,24hrs	-	-	-	3	-
@1350C,24hrs	-	-	-	-	3
Thermal Conductivity (w/m.k)					
600°C	0.13	-	-	-	-
800°C	0.2	0.13	0.13	0.12	0.16
1000°C	-	0.19	0.19	0.2	0.2
Rupture Strength (Mpa)					
Thickness≤25mm	0.5	0.5	0.5	0.5	0.5
Thickness>25mm	0.2	0.2	0.2	0.2	0.2
Chemical Composition (%)					
Al2O3	37	46	46-49	52-55	39-40
Al2O3+SiO2	96	97	99	99	-
ZrO2	-	-	-	-	15-17
Al2O3+SiO2+ZrO2	-	-	-	-	99
Fe2O3	≤1.0	≤0.8	≤0.2	≤0.2	≤0.2
Na2O+K2O	≤0.8	≤0.5	≤0.2	≤0.2	≤0.2
Package	Carton box or pallet				

**Size:**

<b>CCEWOOL® Research series alumina foil ceramic fiber board</b>		
Thickness (mm)	20/25/50	80/100
Density (kg/m <sup>3</sup> )	280/300/320/350	280/300/320
Size (mm)	1200*1000 or customized size	

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