

## CCEWOOL® Superbloc® Module



Classification Temperature: 1316°C (2400°F), 1430°C (2600°F)

Chemical Composition: Alumina, Silica, (Zirconia)

CCEWOOL® Superbloc® Module is a premium monolithic ceramic fiber lining module and an engineering product developed for customized Fabrication furnace lining systems. It is designed for industrial furnaces and kilns that require high structural stability, installation consistency, and reliable long-term performance at elevated temperatures.

The product is made from high-purity synthetic ceramic fiber and formed into a high-strength, self-supporting monolithic module through a proprietary process on a fully automated continuous production line. Compared with conventional assembled modules, CCEWOOL® Superbloc® Module features a continuous, non-layered structure, making it more suitable for integrated and customized Fabrication lining systems across different furnace types, structural zones, and installation methods.

As a Fabrication product, CCEWOOL® Superbloc® Module focuses not only on material performance but also on structural fit and overall lining integrity. Combined with a dedicated anchoring system and installation tools, the module can achieve higher compression and more precise positioning during installation. Adjacent modules fit tightly together, helping reduce joints, thermal bridges, and local installation errors while improving hot-face flatness and long-term lining stability.

With its monolithic structure, high installation compatibility, and reliable long-term performance, CCEWOOL® Superbloc® Module is particularly suitable for integrated Fabrication furnace lining designs, providing a more complete, stable, and consistent high-temperature insulation lining solution.

### Characteristics:

- Excellent thermal shock resistance;
- Low thermal conductivity and low heat storage;
- Monolithic high-strength structure;

Multi-directional compression;  
Tight-fitting, highly sealed lining structure;  
High-temperature resistance with low shrinkage;  
Simple design and high installation efficiency;  
Stable and reliable anchoring system;  
Excellent thermal stability;  
Binder- and lubricant-free;  
Excellent corrosion resistance.

**Applications:**

High-Temperature Industrial Furnace Linings

Furnace wall and roof linings for heating furnaces, heat-treatment furnaces, and soaking furnaces

High-temperature insulation and structurally stable linings for multi-zone industrial furnaces

Backup Insulation and High-Temperature Sealing

Backup insulation for furnace linings to help reduce shell temperature

Continuous insulation and gas-tight areas inside high-temperature equipment

Power Generation & Energy

Insulation linings for waste heat boiler furnaces, chimneys, and high-temperature pipelines

High-temperature linings and insulation structures for boilers and combustion systems

Petrochemical & Refining

Ethylene cracking furnaces

Ammonia, hydrogen, and methanol reforming units

Delayed coking units and refinery process heaters

Flare stacks and high-temperature combustion system linings

Steel Industry

Furnace linings for reheating, annealing, and soaking furnaces

Furnace structures requiring high-temperature sealing and integrated thermal insulation

### Ceramics & Refractory Industry

Furnace walls and roofs for tunnel kilns, intermittent kilns, and other industrial kilns

Kiln insulation linings requiring long-term high-temperature stability

### Other High-Temperature Industrial Equipment

Linings for industrial boilers, heaters, and combustion chambers

High-temperature equipment requiring high structural integrity and long service life.

### TDS

| CCEWOOL® Superbloc® Module       |           |                      |     |     |                       |              |
|----------------------------------|-----------|----------------------|-----|-----|-----------------------|--------------|
| Description                      |           | Superbloc® Module 24 |     |     | Superbloc® Mlodule 26 |              |
| Classification Temperature (°C ) |           | 1316(2400°F)         |     |     | 1430(2600°F)          |              |
| Color                            |           | White                |     |     | White                 |              |
| Shot Content (%)                 |           | ≤10                  |     |     | ≤10                   |              |
| Density (kg/m°)                  |           | 160                  | 192 | 240 | 160                   | 192      240 |
| Permanent Linear Shrinkage (%)   |           | 1200°Cx24h≤3         |     |     | 1400°Cx24h≤3          |              |
| Thermal Conductivity (W/m-K)     |           |                      |     |     |                       |              |
| 400°C                            |           | ≤0.09                |     |     | ≤0.09                 |              |
| 600°C                            |           | ≤0.14                |     |     | ≤0.14                 |              |
| 800°C                            |           | ≤0.20                |     |     | ≤0.20                 |              |
| 1000°C                           |           | -                    |     |     | ≤0.28                 |              |
| Standard Size (mm)               | Length    | 305                  |     |     |                       |              |
|                                  | Width     | 305                  |     |     |                       |              |
|                                  | Thickness | 76-305               |     |     |                       |              |