CRETOX
THERMAL

LIGHTWEIGHT REFRACTORY PRODUCTS



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CRETOX
THERMAL

THERMAL INSULATION SOLUTIONS FOR INDUSTRIAL FURNACES

Apparent density: 0.5–1.3 g/cm³
Application temperature: up to 1300°C

ENGINEERING

Custom solutions for your requirements

PRODUCTION

Advanced materials and quality control

SUPPLY

Reliable worldwide supply

SERVICE

Technical support and assistance

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LIGHTWEIGHT REFRACTORY PRODUCT RANGE

Apparent density: 0.5–1.3 g/cm³ | Application temperature: up to 1300°C

Grade	Strength, N/mm²	Density, g/cm³	Shrinkage, %	Al_2O_3, %	Fe_2O_3, %	Application temp., °C
CRETOX LW-0.5	≥ 1	≤0.5	≤0,2	≤15	≤1	**≤800**
CRETOX LW-0.6	≥ 1.5	≤0.6	≤0,2	≤15	≤1	**≤800**
CRETOX LW-0.8	≥ 2	≤0.8	≤0,2	≤20	≤1	**≤1000**
CRETOX LW-1.0	≥ 2,5	≤1.0	≤0,2	≤30	≤1	**≤1200**
CRETOX LW-1.3	≥ 3	≤1.3	≤0,2	≤30	≤1	**≤1300**

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CRETOX LW-0.5

LIGHTWEIGHT REFRACTORY PRODUCT WITH AN APPARENT DENSITY OF 0.5 g/cm³



QUALITY CHARACTERISTICS

Compressive strength, N/mm²	≥ 1
Apparent density, g/cm³	≤0.5
Al_2O_3 content, %	≤0.2
Additional linear shrinkage, %	≤15
Fe_2O_3 content, %	≤1
Application temperature, °C	≤800

APPLICATIONS AND INDUSTRIES

Power generation and industrial thermal engineering: backup thermal insulation for boilers, flues, smoke ducts and drying units. Mechanical engineering: low-temperature drying, tempering and preheating furnaces. Ceramics: insulating layers in chamber and tunnel kilns and kiln cars. Recommended primarily as an insulating or backup layer in areas without intensive abrasion.

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CRETOX LW-0.6

LIGHTWEIGHT REFRACTORY PRODUCT WITH AN APPARENT DENSITY OF 0.6 g/cm³



QUALITY CHARACTERISTICS

Compressive strength, N/mm²	**≥ 1.5**
Apparent density, g/cm³	**≤0.6**
Additional linear shrinkage, %	**≤0.2**
Al_2O_3 content, %	**≤15**
Fe_2O_3 content, %	**≤1**
Application temperature, °C	**≤800**

APPLICATIONS AND INDUSTRIES

Power generation: thermal insulation of boiler units, flues and hot-air ducts. Mechanical engineering and metalworking: tempering, drying, preheating and heat-treatment furnaces. Ceramics: backup lining of chamber, tunnel and periodic kilns. Non-ferrous metallurgy: insulating layers in melting and holding units outside areas of direct contact with molten metal.

CRETOX LW-0.8

LIGHTWEIGHT REFRACTORY PRODUCT WITH AN APPARENT DENSITY OF 0.8 g/cm³



QUALITY CHARACTERISTICS

Compressive strength, N/mm²	**≥ 2**
Apparent density, g/cm³	**≤0.8**
Additional linear shrinkage, %	**≤0.2**
Al_2O_3 content, %	**≤20**
Fe_2O_3 content, %	**≤1**
Application temperature, °C	**≤1000**

APPLICATIONS AND INDUSTRIES

Ceramics and building materials: tunnel, roller and chamber kilns, walls, roofs and kiln cars. Metallurgy: backup lining of reheating and heat-treatment furnaces. Petrochemical industry: insulating layer in process heaters, furnaces and flues. Power generation: high-temperature air ducts and thermal units.

CRETOX LW-1.0

LIGHTWEIGHT REFRACTORY PRODUCT WITH AN APPARENT DENSITY OF 1.0 g/cm³



QUALITY CHARACTERISTICS

Compressive strength, N/mm²	**≥ 2.5**
Apparent density, g/cm³	**≤1.0**
Additional linear shrinkage, %	**≤0.2**
Al_2O_3 content, %	**≤30**
Fe_2O_3 content, %	**≤1**
Application temperature, °C	**≤1200**

APPLICATIONS AND INDUSTRIES

Ferrous and non-ferrous metallurgy: backup lining of reheating, annealing and heat-treatment furnaces. Ceramics: high-temperature tunnel and roller kilns. Petrochemical industry: process furnaces, heaters and reactor units as a thermal insulation layer. Glass industry: insulation of annealing furnaces and backup layers of furnace structures.

CRETOX LW-1.3

LIGHTWEIGHT REFRACTORY PRODUCT WITH AN APPARENT DENSITY OF 1.3 g/cm³



QUALITY CHARACTERISTICS

Compressive strength, N/mm²	**≥ 3**
Apparent density, g/cm³	**≤1.3**
Additional linear shrinkage, %	**≤0.2**
Al_2O_3 content, %	**≤30**
Fe_2O_3 content, %	**≤1**
Application temperature, °C	**≤1300**

APPLICATIONS AND INDUSTRIES

Metallurgy: high-temperature reheating and heat-treatment furnaces, hot-blast stoves and backup lining and insulation. Ceramics: high-temperature zones of firing kilns. Petrochemical industry: furnaces, heaters and reactor chambers as a backup thermal-insulation layer. Glass industry: backup insulation of regenerators, roofs and annealing furnaces. Suitable for more thermally demanding areas provided the layer temperature does not exceed the specified service temperature.