

Features

- Low Thermal Conductivity
- High Mechanical Strength
- High Electrical and Arc Resistance
- Chemical Resistant
- Moisture Resistant
- Tough & Durable
- Asbestos Free

Monolux® 500 Structural Calcium Silicate Sheet 300mm x 295mm x 12.7mm

RS Stock No.: 203-5385



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Thermal Insulation

MONOLUX materials are rigid insulation boards with a low thermal conductivity. They are specifically formulated without asbestos and mineral fibres. MONOLUX products have low shrinkage and high strength and therefore provide effective and stable insulation solutions for industrial applications. MONOLUX boards combine high mechanical strength, good thermal and electric insulation at high temperatures.

- *Load Bearing Pipe Supports*
- *Heat Shields*
- *Structural Thermal Separations*
- *Furnace Bottom Boards*

General Specifications

Colour	White/Beige
Building Material Class	A1, non-combustible
Nominal Density	950 kg/m ³

Mechanical Specifications

Cold Compressive Strength	> 27 N/mm ²
Bending Strength	7 N/mm ²
Alkalinity	Approx. 10 pH
Moisture Content (air-dry)	< 5%

Electrical Specifications

Breakdown Voltage & Electric Strength	4.2 kV/mm
High Voltage Arc Resistance – Level 40, 40mA	300 seconds
Volume Resistance 25°C 600°C	4.3 x 10 ⁸ Ω 6.5 x 10 ⁷ Ω
Surface Resistance 25°C 600°C	8.1 x 10 ⁸ Ω 7.5 x 10 ⁷ Ω

Thermal Insulation

Thermal Specifications

Thermal Conductivity	
200°C	0.20 W/mK
400°C	0.21 W/mK
600°C	0.22 W/mK
800°C	0.23 W/mK
Specific Heat Capacity	1.03 kJ/kg K
Shrinkage 1000°C – 24 hr	0.8%
Reversible Thermal Expansion 20-800°C, after 2 nd Heating	$7.3 \times 10^{-6} \text{ K}^{-1}$

Chemical Analysis

SiO ₂	49%
CaO	48%
Fe ₂ O ₃	1.2%
LOI	12%

Approvals

Declarations	MFR Declaration of Conformity
Compliance/Certification	RoHS and REACH

Similar Products

Stock No.	Brand	Product Name	Sheet Size	Thickness
203-5385	MONOLUX 500	Structural Calcium Silicate Sheet	300 x 295mm	12.7mm
203-5386	MONOLUX 500	Structural Calcium Silicate Sheet	300 x 295mm	20mm
203-5387	MONOLUX 500	Structural Calcium Silicate Sheet	300 x 295mm	25mm
203-6314	SUPALUX	Calcium Silicate Sheet Fire Barrier	300 x 295mm	6mm
203-6315	SUPALUX	Calcium Silicate Sheet Fire Barrier	300 x 295mm	9mm
203-6316	SUPALUX	Calcium Silicate Sheet Fire Barrier	300 x 295mm	12mm