HIGH TEMPERATURE BOARDS
KNAUF INSULATION POWER-TEK BD 700

Type of Insulation:
Mineral wool high temperature board for the insulation of vessel walls, columns, power plant boilers, furnaces, flue gas ducts.
The board must have certifications and CE marking in accordance with EN 14303.

Facing:
The board shall have no own facing.

Description:
Board for high temperature applications. The mineral wool board shall use a mainly bio-based binder, e.g. Ecose Technology, contain no added formaldehyde and be certified under Eurofins Gold Indoor Air Comfort quality standards or equivalent.

Main characteristics:
1. Eurofins
Certification Indoor Air Comfort: Gold Standard

2. Fire
The board shall be non-combustible with the following reaction to fire according to EN 13501-1: A1.

3. Thermal
The thermal conductivity λ-value shall be according to EN 12667:
0,041 W/(mK) at 50 °C
0,045 W/(mK) at 100°C
0,059 W/(mK) at 200 °C
0,075 W/(mK) at 300 °C
0,095 W/(mK) at 400 °C
0,119 W/(mK) at 500 °C
0,147 W/(mK) at 600 °C
0,178 W/(mK) at 700 °C
The maximum service temperature is measured according to EN 14706 and shall be minimum 700 °C.

4. Chemicals
AS quality, according to EN 13468: content of chlorides less than 10 ppm.

5. Dimensional tolerances
The dimensional tolerance class shall be T5, according to EN 14303.

6. Other requirements
Water vapour diffusion resistance coefficient μ-value, according to EN 14303: μ= 1.
Water absorption, according to EN 1609: maximum 1 kg/m².
Melting point of fibres, according to DIN 4102-17: ≥ 1000 °C.
Longitudinal air flow resistance, according to EN 29053: ≥ 30 kPa·s/m²

EN designation code:
MW-EN14303-T5-ST(+)700-WS1-CL10

Standard Dimensions:
High temperature board length shall be 1000 mm.
High temperature board width shall be 600 mm.
High temperature board thickness shall be: 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 175 mm.