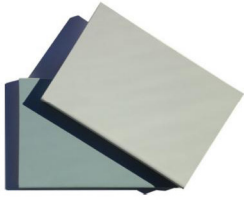


WORKTOP SURFACES

STANDARD LABORATORY BENCHES



Dividing spaces, integrating furniture, uniting people



CHARACTERISTICS

Critical Materials

Hydrofluoric acid

Advantages

- Exceptional chemical resistance.
- High mechanical resistance.
- Resistant to abrasion and wear.
- No flammable (A1)

Weight (kg/m²)

56 kg

Total Thickness

20/26/27 mm

Flange

7 mm.

Application

Chemical laboratories

* SURFACE
20 mm thickness ceramic plate consisting of natural materials (especially clay, kaolin and feldspar) with vitrification treatment along the surface.
High chemical and mechanical resistance (DIN 993-5/6).

* INTENDED USE
High resistance to chemical attack and impact, and it is decontaminable.
Highly recommended for laboratories with a high degree of reagent handling.

* PROPERTIES
Ceramic products with permanently sealed surfaces offer a unique combination of chemical, temperature, mechanical and abrasion (up to 800°C) resistance.

- Easy cleaning without negative effect in the material even after severe contamination.
- Material stability even after contact with hot objects or flames.

- Everlasting: it maintains its properties like the first day.
- Scratch and abrasion resistance potentially caused by the handling of devices on its surface.

- Material stability even when subjected to high temperatures and concentrated chemicals for long time periods.

Physical characteristics:

Characteristics	Registered value	Norm	Result
Density	2,37 g/cm ³	DIN EN 993-1	
Weight	65 kg/m ²		
Thermal conductivity	1,57 W/mK	DIN EN 821-2	
Breaking load (P) in kg - Surface	P = 1600 x B/L		
Fire behavior	Building material clasif. A1	DIN EN 13501-1, DIN 4102	Non-flammable fire resistant

Mechanical characteristics:

Characteristics	Registered value	Norm	Result
Cold compression resistance	159 MPa	DIN EN 993-5	
Bending resistance	41,3 MPa	DIN EN 993-6	
Elasticity static module	39,0 GPa	DIN EN 993-6	
Wear	8,5 cm ³ /50 cm ²	DIN 52108	
Scratch hardness	Hardness 7 (Mohs scale)	DIN EN 101	
Crack resistance		DIN EN ISO 10545-11	Free of cracks

Thermal characteristics:

Characteristics	Registered value	Norm	Result
Thermal expansion	(a25-400) 5,6 10-6K-1 (a25-800) 5,9 10-6K-1 (a25-800) 6,3 10-6K-1	DIN 51045-2	
Operating temperature	Up to 550 °C Temporal exposure up to 800 °C		

Chemical resistance:

Characteristics	Registered value	Norm	Result
Test solution resistance (include: hydrochloric acid with sodium hypochlorite)	FRIDURIT Technical ceramic samples, exposed to the influence of solutions for a given test time, and its effects are visually checked.	DIN EN ISO 10545-13	None of the test solutions has any effects on the sample.
Dyes resistance (e.g. iodine)		DIN EN ISO 10545-14	The dyes can be removed thoroughly with hot water.

Visual characteristics:

Matt surface in current ceramic glazing colors and special colors choice available.