



ChemShield Distribution

ChemShield™ CS1000

Chemical Resistant FRP Liner Board for Laboratory Fume Hood Applications



**Underwriters
Laboratories**



ChemShield Distribution • Grand Rapids, MI

ChemShield™ CS1000

Chemical-Resistant FRP Liner Board for Laboratory Fume Hoods

Product Overview

ChemShield™ CS1000 is a high-performance fiberglass-reinforced polyester (FRP) panel engineered for demanding laboratory environments. Designed as a liner for fume hoods and other high-exposure zones, CS1000 delivers superior chemical resistance, durability, and longevity.

Applications

- Fume hood interior lining
- Laboratory casework and wall protection
- Cleanroom surfaces
- Industrial chemical environments

Features & Benefits

- ✓ UL Listed
- ✓ SEFA 3 Tested – Certified resistance to 49 aggressive reagents
- ✓ Durability – Withstands etching, staining, and blistering from volatile and corrosive chemicals
- ✓ Low Maintenance – Easy-to-clean, smooth surface
- ✓ Fire Retardant – Built to meet safety standards
- ✓ Corrosion-Resistant – Suitable for moist, vapor-heavy environments

Product Details

Property	Value
Product Code	CS1000
Material	Fiberglass Reinforced Polyester
Color	White (Standard)
Finish	Smooth Matte
Panel Size	4' x 8' (custom sizes available)
Thickness	3/16"
Installation	Adhesive or mechanical fastening
Compliance	UL Listed, SEFA 3, ASTM E84

Chemical Resistance Summary (SEFA 3)

Rating	Meaning	Number of Chemicals
Level 0	No Effect	15
Level 1	Slight Change in Color/Gloss	25
Level 2	Clear Change in Color or Etch	6
Level 3	Severe Etching/Discoloration	3

- ✓ Result: PASS (Meets SEFA 3 Criteria for Laboratory Work Surfaces)

Sample Chemical Performance

Chemical	Rating	Observations
Hydrochloric Acid (37%)	0	No visible change
Acetone	1	Slight change in color
Chloroform	2	Clear change in color & gloss
Hydrofluoric Acid (48%)	3	Swelling observed
Sulfuric/Nitric Acid Mix	3	Severe etching

Note: Suitability may vary based on specific chemical use. Always test compatibility with intended reagents.

Technical Specifications

Typical Properties	Test Method	Units	Result
Color	--	--	White
Water Absorption	D-792	%	0.08
Barcol Hardness	--	--	49
Specific Gravity	D-792	--	1.81
Density	--	Lbs/in3	0.063
Flammability	UL	Class	94V-0
Flame Resistance			
Ignition Time	D-229	Seconds	130
Burning Time	D-229	Seconds	600
Flame Spread Index	E-84	--	15
Smoke Development Index	UL	PSI	250
Tensile Strength			
Lengthwise	D-638	PSI	8,455
Crosswise	D-638	PSI	not reported
Flexural Strength			
Lengthwise	D-790	PSI	17,114
Compressive Strength			
Flatwise	D-695	PSI	27,300
Impact Strength			
Lengthwise	D-256	Ft Lbs/in	7.5

Ordering Information

To request a quote, samples, or MSDS, contact:

 (616) 466-4218 |  sales@chemshielddist.com | www.chemshielddist.com