

Chemical Resistance Chart

UniFlow Fume Hoods are constructed of white composite Fiberglass Reinforced Polyester (FRP) material. FRP is an excellent general purpose material for fume hood construction.



• HEMCO HiPel FRP composite fire resistant construction is U.L.1805 classified for laboratory fume hoods.



• HEMCO HiPel FRP composite conform to NFPA 45 for products used in laboratories.
 Note: Any heat generating equipment should be elevated at least 3 inches above worksurface, and at least 3 inches away from side walls and baffle.

Chemical resistance of HEMCO's most widely used FRP composite construction, and other liner material options.

N = No Effect **S** = Slight Effect **B** = Bad Effect **NA** = Data Not Available

Chemical	HEMCO HiPel FRP Composite	Polyvinyl Chloride (PVC)	High Density Polyethylene (HDPE)	Polypropylene (PP)	304 Stainless Steel (SS)	316 Stainless Steel (SS)	Worksurfaces	
							Epoxy Resin	Phenolic Resin
Acetic Acid	N	N	NA	N	S	N	N	NA
Acetone	N	B	N	N	N	N	N	NA
Ammonium Hydroxide	N	N	NA	N	N	N	N (28%)	NA
Benzene	N	B	S	B	N	N	N	B
Carbon Tetrachloride	N	B	B	B	N	N	N	N
Chromic Acid	N	S	NA	B	N	N	S (40%)	B
Diethyl Ether	N	B	NA	B	N	N	N	NA
Ethyl Alcohol	N	N	N	N	N	N	N	NA
Gasoline	N	N	B	NA	N	N	N	N
Hydrogen Peroxide	N	N	N	N	NA	NA	N	B
Hydrochloric Acid	N	N	N	N	B	B	S	NA
Kerosene	N	N	NA	B	N	N	N	N
Methyl Alcohol	N	S	N	N	N	N	N	NA
Methyl Ethyl Ketone	N	B	B	NA	N	N	NA	N
Nitric Acid	N (20%)	N	N	B	B	B	N	NA
Sodium Chloride	N	N	N	NA	S (10%)	N (10%)	S (10%)	N
Sodium Hydroxide	N	N	N	N	N	N	S (10%)	B
Sodium Hypochlorite	N	N	B	N	N	N	N	NA
Sodium Sulfide	S	N	N	NA	N	N	NA	B
Sulfuric Acid	N (33%)	N (70%)	N (80%)	N	S (80%)	N (80%)	N (60%)	B (75%)
Sulfuric Acid (conc.)	S	S	S	N	B	S	B	B
Flame Spread	< 25	NA	NA	NA	0	0	NA	NA
Fuel Contributed	0	NA	NA	NA	0	0	NA	NA
Smoke Developed	500	NA	NA	NA	0	0	NA	NA