

	Phelolic solid core	Solid Surface	Epoxy Resin	Polypropylene	HDPE	Stainless steel	Granite	HPL Formica	Solid Wood
Brand	Gentas Glab® Wilsonart Chemsurf® FunderMAX®	Corian® LG HI-MACS®	ECL	Rochling Polystone® PP	Rochling Polystone® P300	Franke	Rustenburg grey	Formica	NA
Composition	Scientifically developed, resin impregnated decorative paper over layer of phenolic resin impregnated kraft paper at high pressure and temperatures	Acrylic polymer and alumina trihydrate (ATH), a material derived from bauxite ore	Epoxy resin, quartz sand, catalysts, curing agents and pigments	Block copolymer polypropylene	High-density polyethylene	304 grade stainless steel	Hard minerals such as quartz, feldspar and mica	High pressure plastic laminate are laminated to selected board substrates.	Lumber
Advantages	Antibacterial Highly compressed surface structure High chemical resistance Moisture-resistant	Nonporous. Solid all the way through. Virtually seamless. Resistant to stains from common lab agents, including blood, plasma, Wright's stain and X-ray development. Resistant to mold, mildew and bacteria with proper cleaning.	High temperature resistance Superior corrosion resistance to acid and base solvents. absolute moisture-proof.	Good impact resistant Very high chemical resistance Moisture resistance – excellent for food and chemical applications Higher scratch resistance than HDPE	Good chemical resistance, Long service life, Low weight Almost no moisture absorption, Physiologically safe, Excellent mechanical properties, permanently UV-resistant	Jointless High resistance to solvents High temperature resistance	highly scratch resistant and will not show wear from daily use. Granite is heat resistant	hard and resistant to wear, acid, boiling water, domestic stains and moderate temperature.	Perhaps the greatest advantage of solid wood is that the wood is the same all the way through, so repairs are relatively easy.
Damaging Substances	Concentrated hydrochloric acids Nitric acid Heated sulfuric acid	Some Chemicals can stain, discolour or damage solid surface materials. These include high concentrations of acids, ketones like acetone, chlorinated solvents like chloroform, or strong solvent combinations like paint remover.	Hydrofluoric acid Concentrated warm mineral acids	Toluene, Hydrochloric acid, concentrated Nitric Acid, Formic Acid, Potassium dichromate, Ozone, Chloroform, Benzol	Naptha, Nitric acid (90%), Nitrobenzene, Phosphorous chlorides, Sulphur trioxide	Compounds containing chlorine and bromine Formic acid Sulfuric acid	alkaline or acidics	Concentrated hydrochloric acids Nitric acid, Heated sulfuric acid. Open flame, molten metal, metallic sparks or intense, direct sunlight, nor should it be used as cutting surfaces. Joints sensitive to moisture.	Exposure to most chemicals will mark the surface if not cleaned within a short amount of exposure time.
Max Temperature	160°	105°	800°	160 °C – 165 °C	135°	180°	135°	135°	135°
Ideal Use	Phenolic resin countertop is the perfect choice for a range of laboratories including teaching and research, medical and pharmaceutical operations. From universities to high schools, from fundamental and applied science researching centers to wide range of industrial organizations, from disease control and preventive medical departments to quarantine centers; From biological products and pharmaceutical factories to industrial and hospital labs, clinics and operation rooms.	Solid Surface products are non porous and have seamless joints making it ideal for use in healthcare, biological and biochemical laboratories where contamination would be an issue.	Laboratory workstation of all types	Ideal for areas that require high chemical and heat resistance. Working with hydrofluoric acid. Radio-isotope area. Areas in which the lack of joints is important.	Areas with high chemical resistance. Highly abrasive areas such as mining labs.	For maximum loads in the area of decontamination and moisture resistance as well as solvent resistance. Biology, Microbiology, Pharmacy. Radio-isotope area, Pathology	Recommened for balance tables, as it is not ideal for use with laboratories that use harsh acids which can attach the organic compounds of granite.	Mobile tables, add-on tables, window benches Instrument benches and laboratory benches in the dry area Cannot be used in moist or wet area	School Laboratories
Thickness	20mm	10mm fabricated to 32mm	20mm	4-20mm	25mm	custom	custom	30mm	custom