



Laboratory benches

Worktop material


Melamine resin facing/postforming	
Critical substances	Acids in concentrations > 10 %
Damaging substances	Concentrated hydrochloric acids Nitric acid Heated sulphuric acid
Advantage	Flat
Limitations	Joints sensitive to moisture Medium chemical resistance
Use	Mobile table, add-on table, window benches Instrument benches and laboratory benches in the dry area Cannot be used in the moist or wet area
Weight [kg/m²]	19.6
Overall thickness [mm]	30
	Light grey NCS S 3005 R80B


Polypropylene	
Critical substances	Hydrocarbons Citric acid Oxalic acid Carbon tetrachloride Diesel oil
Damaging substances	Ozone Concentrated nitric acid Chloroform Petrol Benzol
Advantage	No joints Flat Light High chemical resistance to acids and many solvents Easy to dispose of Less breakage of glass
Limitations	Soft surface sensitive to scratches Sensitive to heat
Use	Areas with high resistance to chemicals Working with hydrofluoric acid Radio-isotope area Areas in which the lack of joints is important
Weight [kg/m²]	20.3
Overall thickness [mm]	30
Increased edge [mm]	7
	Light grey NCS S 3005 R80B

Laboratory benches

Worktop material


Laboratory benches and sinks

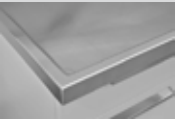
Solid grade laminate	
Critical substances	Acids in concentrations > 10 %
Damaging substances	Concentrated hydrochloric acids Nitric acid Heated sulphuric acid
Advantage	Moisture-resistant Flat Easy to dispose of
Limitations	Reduced coating thickness
Use	Wet rooms Physical laboratories Tables with average load
Weight [kg/m ²]	26.4
Overall thickness [mm]	19
	Light grey NCS S 3005 R80B

Solid grade laminate Trespa Toplab+	
Critical substances	Acids in concentrations > 10 %
Damaging substances	Concentrated hydrochloric acids Nitric acid Heated sulphuric acid
Advantage	Antibacterial Highly-compressed surface structure High chemical resistance Moisture-resistant Flat Easy to dispose of
Limitations	Reduced coating thickness
Use	Chemical, microbiological, genetical-engineering laboratories
Weight [kg/m ²]	26.4
Overall thickness [mm]	19
	Glacier blue Similar to NCS 1010 R80B

Laboratory benches


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Epoxy	
Critical substances	Various solvents Diluted acids
Damaging substances	Hydrofluoric acid Concentrated warm mineral acids
Advantage	No joints Flat Solid panel High mechanical load capacity Easy to dispose of
Limitations	Surface sensitive to scratches Sensitive to concentrated acids
Use	Laboratory workstation of all type
Weight [kg/m²]	32
Overall thickness [mm]	19
Increased edge [mm]	7
	Platinum grey Similar to NCS S 4202-R

Stainless steel	
Critical substances	Cadmium Lactic acid Oxalic acid
Damaging substances	Compounds containing chlorine and bromine Formic acid Sulphuric acid
Advantage	No joints High resistance to solvents High temperature resistance
Limitations	Sensitive to halogens and their compounds
Use	For maximum loads in the area of decontamination and moisture resistance as well as solvent resistance Biology Microbiology Pharmacy Radio-isotope area Pathology
Weight [kg/m²]	27.5
Overall thickness [mm]	30
Increased edge [mm]	7
	

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Stoneware	
Critical substances	None
Damaging substances	Hydrofluoric acid
Advantage	Best chemical resistance Mechanically stable Easy to dispose of
Limitations	Evenness tolerances due to firing process Thermodynamic stress limited
Use	Areas subject to very high chemical and mechanical stress
Weight [kg/m ²]	56
Overall thickness [mm]	26
Increased edge [mm]	7
	Light grey NCS S 3005 R80B

Composite worktop	
Critical substances	None
Damaging substances	Hydrofluoric acid
Advantage	Flat Lighter than stoneware Best chemical resistance Easy to dispose of
Limitations	Thermodynamic stress limited
Use	Areas with very high chemical stress
Weight [kg/m ²]	40
Overall thickness [mm]	30
Increased edge (epoxy resin) [mm]	7
	White Similar to NCS S 0300-N

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Glass	
Critical substances	None
Damaging substances	Hydrofluoric acid
Advantage	Flat High chemical resistance
Limitations	Sensitive to knocks at corners and edges
Use	Laboratory benches of all types subject to large amounts of chemicals
Weight [kg/m ²]	38
Overall thickness [mm]	30
	Light green NCS S 2010 G10Y