

9210-105		
Reference	boo	klet

Sample

Description		Group		Laborato	ry criteria	
Description		symbol	Fines (%)	Grading	Plasticity	Notes
Gravels {more than 50% of coarse fraction of gravel size} Coarse grained {more than 50% larger than 63 µm BS or No. 200 US sieve size} > 0.075 mm Sands {more than 50% of coarse fraction of sand size} 4.75 – 0.075 mm	Well graded gravels, sandy gravels, with little or no fines	GW	0 - 5	Cu > 4 1 < Cc < 3		Dual symbols. If 5 -12 % fines. Dual symbols if
	Poorly graded gravels, sandy gravels, with little or no fines	GP	0 - 5	Not satisfying GW requirements		above A- line and 4 < Pl < 7
	Silty gravels, silty sandy gravels	GM	> 12		Below A- line or PI < 4	$C_u = \frac{D_{60}}{D_{10}}$
	Clayey gravels, clayey sandy gravels	GC	> 12		Above A- line and PI > 7	
	Well graded sands, gravelly sands, with little or no fines	SW	0 - 5	Cu > 6 1 < Cc < 3		
	Poorly graded sands, gravelly sands, with little or no fines	SP	0 - 5	Not satisfying SW requirements		
	Silty sands	SM	> 12		Below A- line or PI < 4	
		Clayey sands	SC	> 12		Above A- line and PI > 7
Fine grained	Silts and	Inorganic silts, silty or clayey fine sands, with slight plasticity	ML		Use plasticity chart	
{more than 50% smaller than 63 µm BS or No. 200 US sieve size}	Inorganic clays, silty clays, sandy clays of low plasticity	CL	Use plasticity chart			
	Organic silts and organic silty clays of low plasticity	OL	Use plasticity chart			
< 0.075 mm	Silts and Clays {Liquid	Inorganic silts of high plasticity	МН	Use plasticity chart		
	Limit greater than 50}	Inorganic clays of high plasticity	СН	Use plasticity chart		

	Organic clays of high plasticity	ОН	Use plasticity chart
Highly organic soils	Peat and other highly organic soils	Pt	

	Primary letter		Secondary letter
G	Gravel	W	Well graded
S	Sand	Р	Poorly graded
М	Silt	М	With non-plastic fines
С	Clay	С	With plastic fines
0	Organic soil	L	Of low plasticity (LL < 50)
Pt	Peat	Н	Of high plasticity (LL > 50)

