

ZEMİN PARAMETRE TABLOLARI

Table 1-4.—Engineering use chart for compacted soils

Engineering Properties of Compacted Soil ¹		Relative Desirability for Various Uses (No. 1 is considered the best)											
		Rolled earth dams			Canal sections			Foundations and fills					
Soil group name	Group symbol	Permeability ²	Shear strength (saturated)	Compressibility (saturated)	Workability as a construction material	Homogeneous embankment	Core	Shell	Erosion-resistant blanket or belt	Compacted earth lining	Impervious	Pervious	Resistance to frost heave
Well-graded gravel	GW	Pervious	Excellent	Negligible	Excellent	—	1	1	1	—	—	1	1
Poorly graded gravel	GP	Pervious	Good	Negligible	Good	—	2	2	2	—	—	3	2
Silty gravel	GM	Semipervious to impervious	Good	Negligible	Good	2	4	—	4	4	1	4	6
Clayey gravel	GC	Impervious	Good to fair	Very low	Good	1	1	—	3	1	2	6	5
Well-graded sands	SW	Pervious	Excellent	Negligible	Excellent	—	—	3 if gravelly	6	—	—	2	3
Poorly graded sands	SP	Pervious	Good	Very low	Fair	—	—	4 if gravelly	7 if gravelly	—	—	5	4
Silty sands	SM	Semipervious to impervious	Good	Low	Fair	4	5	—	8 if gravelly	5 erosion critical	3	7	12
Clayey sands	SC	Impervious	Good to fair	Low to medium	Good	3	2	—	5	2	4	8	7
Silt	ML	Semipervious to impervious	Fair	Medium	Fair	6	6	—	—	6 erosion critical	6	9	11
Lean clay	CL	Impervious	Fair	Medium	Good to fair	5	3	—	9	3	5	10	9
Organic silt and organic clay	OL	Semipervious to impervious	Poor	Medium to high	Fair	8	8	—	—	—	7	11	—
Elastic silt	MH	Semipervious to impervious	Fair to poor	High	Poor	9	9	—	—	—	8	12	10
Fat clay	CH	Impervious	Poor	High	Poor	7	7	—	10	—	9	13	8
Organic silt and organic clay	OH	Impervious	Poor	High	Poor	10	10	—	—	—	10	14	—
Peat and other highly organic soils	PT	—	—	—	—	—	—	—	—	—	—	—	—

¹ Compacted to at least 95 percent of laboratory maximum dry density or to at least 70 percent relative density.
² Impervious: < 1 ft/yr (1 x 10⁶ cm/s)
 Semipervious: 1 to 100 ft/yr (1 x 10⁶ cm/s to 1 x 10⁴ cm/s).
 Pervious: > 100 ft/yr (1 x 10⁴ cm/s).

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EARTH MANUAL

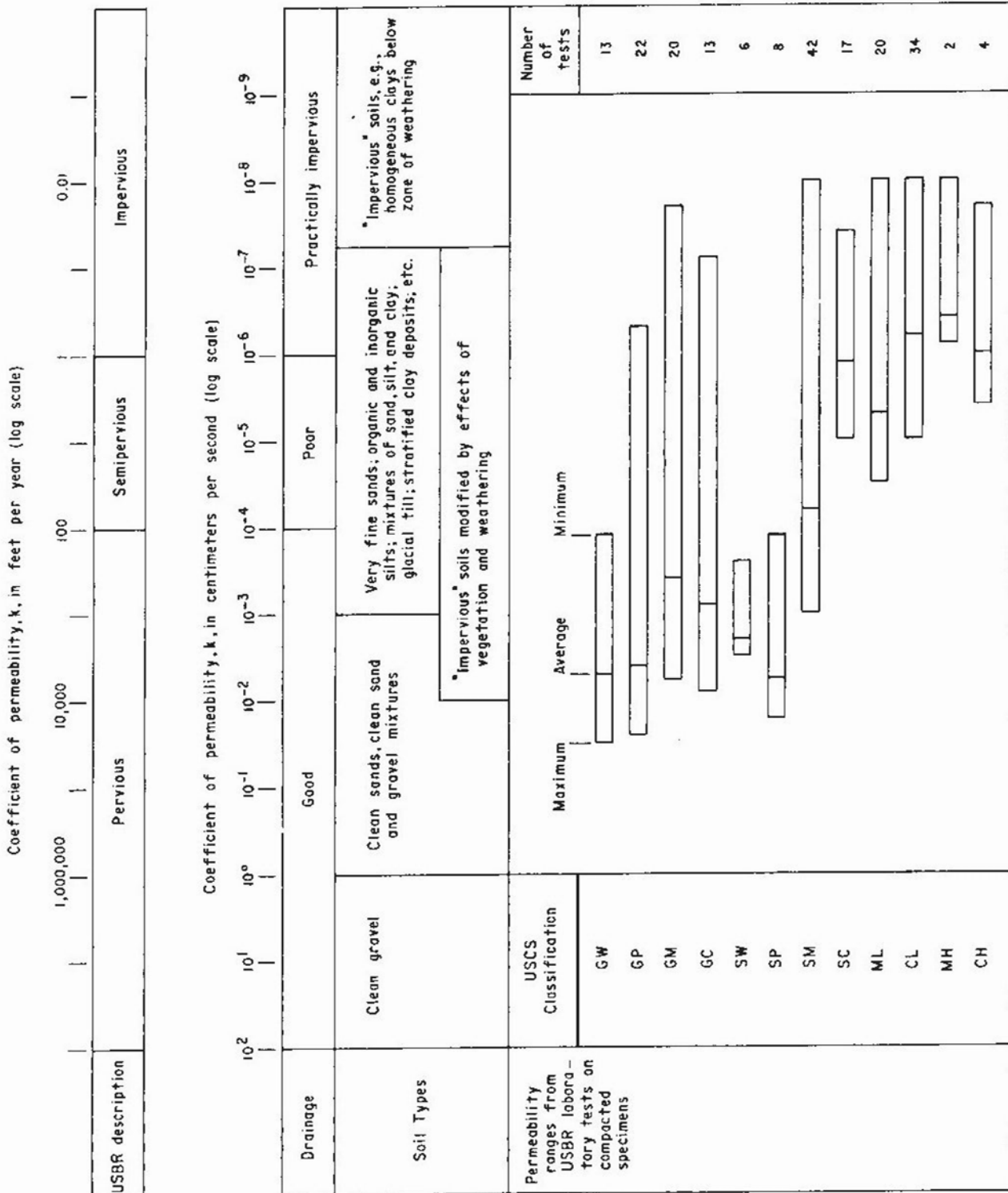


Figure 1-32.—Permeability ranges for soils.