

Wentworth or Udden-Wentworth grain size scale

Particle diameter in mm	Particle diameter in phi units $\Phi = -\log^2 d$ d = diameter	Sediment size class
2048	-11	very large boulders
1024	-10	large boulders
512	-9	medium boulders
256	-8	small boulders
128	-7	large cobbles
64	-6	small cobbles
32	-5	very coarse pebbles
16	-4	coarse pebbles
8	-3	medium pebbles
4	-2	fine pebbles
2	-1	very fine granules
1	0	very coarse sand
1/2 (500 μm)	+1	medium sand
1/4 (250 μm)	+2	fine sand
1/8 (125 μm)	+3	very fine sand
1/16 (62 μm)	+4	very coarse silt
1/32 (31 μm)	+5	coarse silt
1/64 (16 μm)	+6	medium silt
1/128 (8 μm)	+7	fine silt
1/256 (4 μm)	+8	very fine silt
1/512 (2 μm)	+9	clay

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