

Phi units	Clast or crystal size in mm log scale	Sedimentary clasts		Volcaniclastic fragments	Crystalline rocks Igneous, Metamorphic or Sedimentary
-8	256	boulders			
				blocks & bombs	very-coarse-grained
-6	64	cobbles	G		
			R		very-coarse-crystalline
			A		
-4	16	pebbles	V	lapilli	
			E		coarse-grained
-2	4				coarse-crystalline
-1	2	granules	L		
0	1	very-coarse-sand			medium-grained
		coarse-sand			
1	0.5 (1/2)	medium-sand	S		medium-crystalline
2	0.25 (1/4)		A		
		fine-sand			
3	0.125 (1/8)		N	coarse-ash-grains	fine-grained
		very-fine-sand	D		fine-crystalline
5	0.032 (1/32)				
		silt	M		very-fine-grained
				fine-ash-grains	very-fine-crystalline
8	0.004 (1/256)		U		
		clay	D		cryptocrystalline