

3. Bodies and particles of irregular shape

With smooth surface				With rough surface			
Material	d_{gr} , mm	ε'	φ	Material	d_{gr} , mm	ε'	φ_1
Polydisperse beach sand	2-3	0.35	0.66	Activated charcoal	1-2	0.500	0.64
	1.5	0.35	0.76		1.5	0.445	0.92
Bank sand	2.5-5	0.445	0.80		1.5-4.5	0.400	0.79
	1.2-2.5	0.390	0.76	Limestone	1.6	0.640	0.77
Activated alumina	1-3	0.500	0.68		5.25	0.480	0.77
	3-5	0.500	0.49		0.2-0.3	0.430-0.460	0.63-0.70
	9-10	0.520	0.50		1.2-5	0.390-0.445	0.76-0.80
Alumina silica gel	2.5	0.520	0.56				
	3.5	0.480	0.68	Silica gel KSM	3-5	0.490	0.50
	4.5	0.500	0.49		5-25	0.43-0.52	0.68-0.?
Anthracite <i>Stein hall</i>	1.0	0.540	0.66		2.6	0.480	0.77
	2.1	0.520	0.67	Crushed stone	30-25	0.500	0.62
	3.5	0.510	0.66		5-10	0.460-0.500	0.54
	7-8	0.520	0.07				
	12-18	0.465	-				
	18-25	0.475	-				
Gravel	3.7	0.470-0.540	0.73				
	12-20	0.370	0.68				