DEFINITIONS OF MATERIAL CHARACTERISTICS

Selection of the most appropriate crusher is greatly influenced by the precise nature of the material to be crushed. The listings that follow serve to illustrate how even the same basic materials can vary widely. Such variances will definitely influence the type of crusher that should be employed.

		CLASS
ABRASIVENESS	Low abrasiveness	1
	Mildly abrasive	2
	Very abrasive	3
FLOWABILITY	Very free flowing - angle of repose up to 30°	4
	Free flowing - angle of repose 30°-45°	5
	Sluggish - angle of repose 45° and up	6
SPECIAL CHARACTERISTICS	Hygroscopic	A
	Highly corrosive	B
	Mildly corrosive	C
	Degradable when exposed to air	D
	Very friable	E
	Mildly friable	F
	Tough - resists reduction	G
	Plastic or sticky	H

PHYSICAL CHARACTERISTICS OF MATERIALS

Material	Class*	Average Weight in Lbs. Per Cubic Foot
Alumina	3-5-G	60
Aluminum Oxide	3-G	70-120
Bagasse	1-6-C	7-8
Barite	3-5	140-180
Bark (wood refuse)	2-6-G	10-20
Basalt (broken)	3-G	10-20
Bauxite (crushed)	3-5-F	75-85
Bentonite	2-5	40-50
Brick	3-F	100-125
Carbon Electrodes (baked)	2-G	—
Carbon Electrodes (unbaked)	1-F	—
Cement Clinker	3-5-F	75-95
Cement Rock	2-5-F	100-110
Charcoal	2-5-D-F	18-25
Clay (dry)	3-5	60-75
Calcined Clay	3-F	80-100
Coal - Anthracite	1-4-D-E	55-60
Coal - Bituminous	1-5-C-D-E	45-55
Coal - Sub-bituminous	1-5-C-D-E	45-55
Coke - Petroleum	2-5	35-42
Cryolite	1-5-F	110
Cullet - Glass	3-5-E	80-120
Diatomaceous Earth	2	11-14
Dross - Aluminum	3-F-C	—
Fluorspar	2-5-F	90-100
Fullers Earth - raw	2-5	35-40
Granite - broken	3-5-G-H	90-100
Gravel	3-5-F	90-100
Gypsum Rock	2-5-F	90-100
Lignite - Texas (ROM)	1-5-D-E	45-50
Lignite - Dakota (ROM)	1-6-D-F	45-50
Lime - Pebble	1-5-E	53-56
Limestone - broken	2-5-F	90-100
Manganese Ore	3-5-G	125-140
Marble - broken	2-5-F	90-100
Marl - raw & wet	2-6-E-H	130-140
Middlings - Coal	2-5-G-F	—
Phosphate – Rock - Ore	2-5	—
Potash Ore	1-E	—
Potash Ore Compactor Flake	1-E	—
Quartz - broken	3-5-E	85-95
Refuse - household	2-G	45-50
Sand - dry bank	3-5	90-110
Sand - foundry	3-5	90-110
Sandstone - broken	3-F	85-90
Shale - broken	2-5-F	90-100
Shells - Oyster	2-5-E	70-80
Diacalcium Phosphate	2-5-E-H	43
Dolomite	2-5-F	90-100
Slag - Open Hearth	3-G	160-180
Slag - Blast Furnace	3-4-F-E	80-90
Slate	2-E	85-95
Soapstone (talc)	1-F	40-50
Superphosphate	2-6-F-H	50-55
Traprock - broken	3-5	105-110
Triple Superphosphate	2-6-F-H	50-55
Trona Ore	2-5-F	90-100
Tungsten Carbide	3-4-G	—

**Refer to table above for class description*