



BULK MATERIAL TABLE

Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component /Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Acetylenogen (Calcium Carbide)	+ 1/2	70-90	30A	2.0	B4	I	I	II	H
Adipic Acid	-100M	45	30A	0.5	D3	I	I	III	H, M, V
Alfalfa Meal	-1/8	14-22	30A	0.6	B4	I	I	IV	O, Q, V
Alfalfa Pellets	-1/2	41-43	45	0.5	B4	I	I	II	
Alfalfa Seed	-1/8	10-15	45	0.4	A1-A2-A3	I	I	I	H
Almonds	-1/2	28-30	30A	0.9	B4	I	I	III	K
Alum, Fines	-1/8	45-50	30A	0.6	A1-A2-A3	I	I	III	M, •
Alum, Lumpy	+ 1/2	50-60	30A	1.4	B1-B2	I	I	II	•
Alumina	-1/8	55-65	15	1.8	C4	III	I	II	G, Q
Alumina, Fines	-100M	35	15	1.6	C4	III	I	II	G, Q
Alumina, Sized or Briquette	-3	65	15	2.0	C4	III	I	III	
Aluminate Gel (Aluminate Hydroxide)	-1/8	45	30A	1.7	B4	I	I	III	V
Aluminum Chips, Dry	-1/2	7-15	30A	1.2	B4	I	I	IV	H, N
Aluminum Chips, Oily	-1/2	7-15	30A	0.8	B4	I	I	IV	N, Q, V
Aluminum Hydrate (Aluminum Hydroxide)	-1/2	13-20	30A	1.4	A1-A2-A3	I	I	III	H, V
Aluminum Oxide	-100M	60-120	15	1.8	C4	III	I	I	G, H
Aluminum Ore (Bauxite)	-3	75-85	15	1.8	D4	III	I	II	
Aluminum Silicate (Andalusite)	-1/2	49	30A	0.8	C1-C2	I	III	III	V
Aluminum Sulfate (Alum)	-1/2	45-58	45	1.0	A1-A2-A3	I	I	II	
Ammonium Chloride, Crystalline	-100M	45-52	30A	0.7	C1-C2	I	III	IV	A, L
Ammonium Nitrate	-1/8	45-62	30A	1.3	C3	I	II	III	H, M, •
Ammonium Sulfate	-1/2	45-58	30A	1.0	A1-A2-A3	I	II	III	A, I, M, •
Antimony Powder	-100M	•	30A	1.6	B4	II	I	II	V, •
Apple Pomace, Dry	-1/2	15	30A	1.0	B4	I	I	IV	Q, V
Arsenate of Lead (Lead Arsenate)	-1/64	72	30A	1.4	A1-A2-A3	I	I	III	G, L
Arsenic Oxide (Arsenolite)	-100M	100-120	30A	•	•	I	•	III	L, •
Arsenic, Pulverized	-100M	30	45	0.8	B4	I	•	II	L, •
Asbestos Rock, Ore	-3	81	15	1.2	C4	III	I	III	L
Asbestos, Shredded	Fibers	20-40	30B	1.0	B4	II	I	IV	L, P, Q
Ash, Black, Ground	-1/8	105	30A	2.0	A1-A2-A3	I	I	III	
Ashes, Coal, Dry	-1/2	35-45	30B	3.0	C4	II	II	IV	Q



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Ashes, Coal, Dry	-3	35-40	30B	2.5	C4	II	II	IV	
Ashes, Coal, Wet	-1/2	45-50	30B	3.0	D4	II	II	IV	P
Ashes, Coal, Wet	-3	45-50	30B	4.0	D4	II	II	IV	P
Asphalt, Crushed	-1/2	45	30A	2.0	A1-A2-A3	I	I	IV	
Bagasse, Dry	Fibers	7-10	30A	1.5	B1-B2-B3	I	I	IV	L, N, P, Q
Bakelite	-1/8	30-45	45	1.4	A1-A2-A3	I	I	II	
Baking Powder	-100M	40-55	30A	0.6	A2	I	I	III	
Baking Soda (Sodium Bicarbonate)	-100M	40-55	45	0.6	A2	I	I	II	
Barite (Barium Sulfate)	+1/2	120-180	30B	2.6	D4	II	I	III	
Barite, Powder	-100M	120-180	30B	2.0	B4	I	I	III	G, P
Barium Carbonate	-100M	72	30B	1.6	B4	I	I	IV	L
Bark, Wood	+1/2	10-20	30B	2.0	C4	I	II	IV	N, Q
Barley, Fine Ground	-1/8	24-38	30B	0.4	A1-A2-A3	I	I	III	
Barley, Malted	-1/2	31	30A	0.4	A1-A2-A3	I	I	III	
Barley, Meal	-1/2	28	30A	0.4	A1-A2-A3	I	I	III	
Barley, Whole	-1/8	36-48	45	0.5	A1-A2-A3	I	I	II	H
Basalt	-1/8	80-105	15	1.8	C4	III	I	II	
Bauxite, Crushed	-3	75-85	30B	2.5	D4	II	I	III	
Bauxite, Dry, Crushed	-1/8	68	15	1.8	C4	I	I	II	
Beans, Castor, Meal	-1/8	35-40	30A	0.8	A1-A2-A3	I	I	III	O
Beans, Castor, Whole, Shelled	-1/2	36	45	0.5	A1-A2-A3	I	I	I	O
Beans, Navy, Dry	-1/2	48	45	0.5	A1-A2-A3	I	I	I	
Beans, Navy, Steeped	-1/2	60	45	0.8	A1-A2-A3	I	I	II	
Beans, Soy	-1/2	45-50	45	0.5	A2	I	I	I	
Beet Pulp, Dry	•	11-16	•	•	•	•	•	•	•
Beet Pulp, Wet	•	25-45	•	•	•	•	•	•	•
Bentonite	-100M	50-60	45	0.7	B4	I	I	II	G, P, Q
Bentonite, Crude	-3	34-40	30A	1.2	B2	I	I	IV	P
Benzene Hexachloride	-100M	56	30A	0.6	A1-A2-A3	I	I	IV	L
Blood, Dried	-3	35-45	30A	2.0	B4	I	I	IV	M
Blood, Dried, Ground	-100M	30	30A	1.0	A1-A2	I	I	III	M
Bluestone (Copper Sulfate)	-1/2	75-95	30A	1.0	B1-B2-B3	I	III	III	•
Bone Ash (Tricalcium Phosphate)	-100M	40-50	30A	1.6	A1-A2	I	I	IV	
Boneblack	-100M	20-25	45	1.5	A1-A2	I	I	II	Q



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Bonechar	-1/8	27-40	30A	1.6	A1-A2	I	I	III	
Bonemeal	-1/8	50-60	30A	1.7	B4	I	I	III	
Bones, Crushed	-3	35-50	30A	2.0	B4	I	I	IV	
Bones, Ground	-1/8	50	30A	1.7	B4	I	I	III	
Bones, Whole	Irregular	35-50	30A	3.0	B4	I	I	IV	N
Borate of Lime	-100M	60	30A	0.6	A1-A2-A3	I	I	III	•
Borax Lumps	1 1/2 to 2	55-60	30A	1.8	B4	I	I	III	
Borax Lumps	2 to 3	60-70	30A	2.0	B4	I	I	III	
Borax, Fines	-1/8	45-55	45	0.7	C4	I	II	II	
Borax, Screenings	-1/2	55-60	30A	1.5	B4	I	I	III	
Boric Acid	-1/8	55	45	0.8	C4	I	II	II	
Boron	-100M	75	15	1.0	B4	III	I	III	
Bran, Rice—Rye—Wheat	-1/8	16-20	30A	0.5	A1-A2-A3	I	I	III	H, Q
Braunite (Manganese Oxide)	-100M	120	30B	2.0	B4	II	I	III	
Bread, Crumbs	-1/8	20-25	30A	0.6	A1-A2-A3	I	I	III	J,K
Brewers Grain, Spent, Dry	-1/2	14-30	30A	0.5	A1-A2-A3	I	I	IV	
Brewers Grain, Spent, Wet	-1/2	55-60	30A	0.8	D3	I	II	IV	
Brick, Ground	-1/8	100-120	15	2.2	C4	III	I	III	
Bronze Chips	-1/8	30-50	30A	2.0	B4	I	I	IV	
Buckwheat	-1/8	37-42	45	0.4	A1-A2-A3	I	I	II	H
Calcine, Flour	-100M	75-85	30A	0.7	A1-A2-A3	I	I	III	
Calcium Carbide	-3	70-90	30A	2.0	B4	I	I	II	H
Calcium Lactate	-3	26-29	30A	0.6	B1-B2	I	II	IV	K, L, P
Calcium Magnesium Carbonate	+ 1/2	90-100	30B	2.0	B4	II	I	II	
Calcium Phosphate	-100M	40-50	30A	1.6	A1-A2-A3	I	I	IV	
Carbon, Activated, Dry, Fine	-1/8	8-20	30A	1.2	B4	I	I	II	K, •
Carbon Black, Fine	-100M	4-7	30A	0.4	A2	I	I	III	P, Q, •
Carbon Black, Pelleted	-1/8	20-25	45	•	•	I	•	I	M, P, •
Carborundum*	-3	100	15	3.0	C4	III	I	II	
Casein	-1/8	36	30A	1.6	B4	I	I	III	
Cashew, Nuts	-1/2	32-37	30A	0.7	B4	I	I	IV	
Cast Iron, Chips	-1/2	130-200	30A	4.0	B4	I	I	IV	
Caustic Soda (Sodium Hydroxide)	-1/8	88	30A	1.8	D4	I	III	III	L, M
Caustic Soda, Flakes (Sodium Hydroxide)	-1/2	47	30A	1.5	D4	I	III	IV	K, L, M, P



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Celite (Diatomaceous Earth)	-1/64	11-17	30B	1.6	C4	II	I	III	G, P, Q, •
Cement, Aerated (Portland)	-100M	60-75	30B	1.4	B4	II	I	I	G
Cement, Clinker	-3	75-95	30B	1.8	D4	II	I	III	
Cement, Mortar	-1/8	133	30A	3.0	C4	I	I	III	K
Cement, Portland	-100M	94	30B	1.4	B4	II	I	II	G
Cerrusite (Lead Carbonate)	-1/64	240-260	30A	1.0	B4	I	I	III	G, L
Chalk, Crushed	-3	75-95	30A	1.9	B4	I	I	II	P
Chalk, Ground	-100M	67-75	45	1.4	B4	I	I	II	G, P, Q
Charcoal, Ground	-100M	18-28	30A	1.2	B4	I	I	IV	H
Charcoal, Lumps	-3	18-28	30A	1.4	B4	I	I	IV	H, K
Chips, Pulpwood	+1/2	12-25	30A	1.0	B1	I	I	III	N, Q
Chocolate, Cake, Pressed	-3	40-45	30A	1.5	B2	I	I	II	
Chrome Ore	-3	125-140	30B	2.5	C4	II	I	III	
Cinders, Blast Furnace	-3	57	30B	1.9	D4	II	II	III	
Cinders, Coal	-3	40	30B	1.8	D4	II	II	III	
Clay, Brick, Dry, Fines	-1/2	100-120	30B	2.0	C4	II	I	III	
Clay, Calcined	-1/8	80-100	30B	2.4	C4	II	I	III	
Clay, Ceramic, Dry, Fines	-100M	60-80	30A	1.5	A1-A2-A3	I	I	III	J
Clay, Dry, Lumpy	-3	60-75	30A	1.8	B4	I	I	III	
Clinker, Cement	-3	75-95	30B	1.8	D4	II	I	III	
Clover, Seed	-1/8	45-48	45	0.4	A1-A2-A3	I	I	II	H
Coal, Anthracite (Culm and River)	-1/8	55-61	30A	1.0	B1-B2	I	II	III	
Coal, Anthracite, Sized	-1/2	49-61	45	1.0	B1-B2	I	I	II	
Coal, Bituminous, Mined	-3	40-60	30A	0.9	A1-A2	I	I	III	F, H, P, Q
Coal, Bituminous, Mined, Sized	-3	45-55	30A	1.0	A1-A2	I	I	III	H, K, N
Coal, Bituminous, Mined, Slack	-1/2	43-50	30A	0.9	B1-B2	I	II	IV	H
Coal, Lignite	-3	37-45	30A	1.0	B4	I	II	III	H
Cocoa, Beans	-1/2	30-45	45	0.5	A1-A2	I	I	II	K
Cocoa, Nibs	-1/2	35	45	0.5	B4	I	I	II	
Cocoa, Powdered	-100M	30-35	30A	0.9	A2	I	I	IV	G, P, Q
Coconut	Shredded	20-22	30A	1.5	B2	I	I	IV	
Coffee, Beans, Green	-1/2	25-32	45	0.5	A1-A2	I	I	II	J, K

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Coffee, Beans, Roasted	-1/2	20-30	45	0.4	A2	I	I	II	J, K
Coffee, Chaff	-1/8	20	45	1.0	A1-A2	I	I	II	G, Q
Coffee, Ground, Dry	-1/64	25	30A	0.6	A1-A2	I	I	III	J
Coffee, Ground, Wet	-1/64	35-45	30A	0.6	A1-A2	I	I	IV	P
Coffee, Soluble	-1/64	19	30A	0.4	A2	I	I	III	G,J,K,M,Q
Coke, Breeze	-1/2	25-35	15	1.2	C4	III	I	III	H, Q
Coke, Loose	-7	25-35	15	1.2	D4	III	I	III	H, K, N
Coke, Petrol, Calcined	-7	35-45	15	1.3	D4	III	I	III	N
Compost	-7	30-50	30A	1.0	C1-C2	I	II	IV	N, P, •
Concrete, Pre-Mix, Dry	-1/2	85-120	30B	3.0	C4	II	I	III	M
Copper Ore	+ 1/2	120-150	30B	4.0	D4	II	I	III	
Copper Ore, Crushed	+ 1/2	120-150	30B	4.0	C4	II	I	III	
Copper Sulfate (Bluestone)	-1/2	75-95	30A	1.0	B1-B2-B3	I	III	III	•
Copperas (Ferrous Sulfate)	-1/2	50-75	30A	1.0	B4	I	I	III	M
Copra, Cake, Ground	-1/8	40-45	30A	0.7	A1-A2-A3	I	I	IV	C, O
Copra, Cake, Lumpy	-3	25-30	30A	0.8	B1-B2-B3	I	I	III	C, O
Copra, Lumpy	+ 1/2	22	30A	1.0	B1-B2-B3	I	I	III	C, O
Copra, Meal	-1/8	40-45	30A	0.7	B4	I	I	III	C, O
Cork, Granulated	-1/2	12-15	30A	0.5	A1-A2-A3	I	I	III	D, V, Q
Cork, Ground	-1/8	5-15	30A	0.5	A1-A2-A3	I	I	III	D, V, Q
Corn, Cleanings	-1/8	20-30	30A	0.4	A1-A2-A3	I	I	III	J, Q
Corn, Cracked	-1/8	40-50	45	0.7	A1-A2-A3	I	I	II	H, J
Corn, Grits	-1/8	40-45	30A	0.5	A1-A2-A3	I	I	III	H, J
Corn, Seed	-1/2	45	45	0.4	A1-A2-A3	I	I	II	H, J, K
Corn, Steeped	-3	40-60	•	0.8	•	•	•	•	•
Corn, Shelled	-1/2	45	45	0.4	A1-A2-A3	I	I	II	H, V
Corn Cobs, Ground	-1/2	17	45	0.6	A1-A2-A3	I	I	II	H, Q
Corn Cobs, Whole	Irregular	12-15	30A	•	B1-B2	I	I	II	H, N, •
Corn Ear	-16	56	30A	•	B1-B2	I	I	III	H, N
Corn Fiber Feed	-1/8	15-35	30A	1.5	•	I	I	III	
Corn Fiber, Dewatered	-1/8	10-25	30A	0.6	A1-A2-A3	I	I	III	
Corn Fiber, Wet	-1/8	15-50	30A	0.8	A1-A2-A3	I	I	III	J, M
Corn Filter Aid	-1/8	15-50	15	2.5	C4	III	I	III	
Corn Germ	-1/8	21	30A	0.4	A1-A2-A3	I	I	III	H, J, O, Q



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Corn Germ, Dewatered	-1/8	30-35	30A	0.6	A1-A2-A3	I	I	III	H, J, M
Corn Germ, Dry	-1/8	30-40	30A	0.5	A1-A2-A3	I	I	III	
Corn Germ, Expanded Cake	-1/8	30-40	30A	2.0	A1-A2-A3	I	I	III	
Corn Germ, Oil Meal	-1/8	30-35	30A	0.6	A1-A2-A3	I	I	III	
Corn Oil, Cake	-7	25	30A	0.6	A1-A2	I	I	IV	C, O
Corn Sugar	-1/8	30-35	30A	1.0	A2	I	I	III	H, J, M, V
Corn Sugar, Crystalline, Dry	-1/8	25-60	30A	1.5	A2	I	I	III	
Corn Sugar, Crystalline, Wet	-1/8	30-60	30A	1.5	A2	I	I	III	
Corn Meal	-1/8	32-40	30A	0.5	A1-A2	I	I	III	H, J, O, V
Cottonseed, Cake, Crushed	-1/2	40-45	30A	1.0	A1-A2	I	I	IV	C, O, V
Cottonseed, Cake, Lumpy	-7	40-45	30A	1.0	B1-B2	I	I	IV	C, O, V
Cottonseed, Dry, Delinted	-1/2	22-40	45	0.6	A1-A2	I	I	II	P, V
Cottonseed, Dry, Not Delinted	-1/2	18-25	30A	0.9	A1-A2	I	I	IV	P, Q, V
Cottonseed, Flakes	-1/2	20-25	30A	0.8	A1-A2	I	I	III	C, O, Q, V
Cottonseed, Hulls	-1/8	12	30A	0.9	A1-A2	I	I	III	Q, V
Cottonseed, Meal, Expeller	-1/8	25-30	30A	0.5	C1-C2	I	I	IV	C, O, V
Cottonseed, Meal, Extracted	-1/8	35-40	30A	0.5	A1-A2	I	I	IV	C, O, V
Cottonseed, Meats, Dry	-1/8	40	30A	0.6	A1-A2	I	I	III	C, O, V
Cottonseed, Meals, Rolled	-1/2	35-40	30A	0.6	A1-A2	I	I	IV	C, O, V
Cracklings, Crushed	-3	40-50	30A	1.3	B1-B2-B3	I	I	IV	C, O, V
Cryolite, Dust (Kryalith)	-100M	75-90	30B	2.0	B4	II	I	III	F, G, L, V
Cryolite, Lumpy (Kryalith)	-16	90-110	30B	2.1	B4	II	I	III	L, V
Cullet, Fines	-1/2	80-120	15	2.0	D4	III	I	III	
Cullet, Lumps	-16	80-120	15	2.5	D4	III	I	III	
Cupric Sulfate (Copper Sulfate)	-1/2	75-95	30A	1.0	B1-B2-B3	I	III	III	•
Diatomaceous Earth (Diatomite)	-1/64	11-17	30B	1.6	C4	II	I	III	G, P, Q, •
Dicalcium Phosphate	-1/64	40-50	30A	1.6	A1-A2-A3	I	I	III	V
Disodium Phosphate	-1/64	25-31	30A	0.5	C4	I	I	III	K

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Distiller's Grain, Spent, Dry	-1/8	30	30A	0.5	B4	I	I	III	
Distiller's Grain, Spent, Wet	-1/2	40-60	30A	0.8	C1-C2	I	I	IV	N
Dolomite, Crushed	-1/2	80-100	30B	2.0	B4	II	I	III	
Dolomite, Lumpy	+1/2	90-100	30B	2.0	B4	II	I	III	
Earth, Loam, Dry, Loose	-1/2	76	30B	1.2	B4	II	I	III	
Ebonite	-1/2	63-70	30A	0.8	A1-A2-A3	I	I	III	V
Egg, Powder	-1/64	16	30A	1.0	A2	I	I	III	G, H, J, Q
Epsom Salts (Magnesium Sulfate)	-1/64	40-50	30A	0.8	A1-A2-A3	I	I	III	M, V
Ethanedioic Acid (Oxalic Acid)	-1/8	60	30A	1.0	A1-A2	I	III	III	L, M
Feldspar, Ground	-100M	65-80	15	2.0	B4	III	I	III	
Feldspar, Lumps	-7	90-100	15	2.0	B4	III	I	III	
Feldspar, Powder	-200M	100	30B	2.0	B4	II	I	III	
Feldspar, Screenings	-1/2	75-80	15	2.0	B4	III	I	III	
Ferrous Sulphate	-1/2	50-75	30A	1.0	B4	I	I	III	M
Ferrous Sulfide (Iron Sulfide), Lumps	-1/2	120-135	30B	2.0	A1-A2-A3	II	I	II	V
Ferrous Sulfide (Iron Sulfide), Mesh	-100M	105-120	30B	2.0	A1-A2-A3	II	I	III	V
Fish Meal	-1/2	35-40	30A	1.0	A1-A2-A3	I	I	IV	C, J, V
Fish Scrap	-7	40-50	30A	1.5	B1-B2-B3	I	I	IV	C, •
Flaxseed	-1/8	43-45	30A	0.4	A1-A2-A3	I	I	III	H, P, V
Flaxseed Cake (Linseed Cake)	-7	48-50	30A	0.7	B1-B2	I	I	IV	O
Flaxseed Meal (Linseed Meal)	-1/8	25-45	30A	0.4	A1-A2	I	I	IV	O, V
Flour, Wheat	-1/64	33-40	30A	0.6	A2	I	I	IV	F, H, J, V
Flue Dust, Basic Oxygen Furnace	-1/64	45-60	30B	3.5	C4	II	I	III	F, G
Flue Dust, Blast Furnace	-1/64	110-125	30B	3.5	C4	II	I	III	
Flue Dust, Boiler H, Dry	-1/64	30-45	30B	2.0	C4	II	I	III	F, G
Fluorspar (Calcium Fluoride)	-1/8	80-100	30B	2.0	B4	II	I	III	
Fluorspar, Lumps	-7	90-110	30B	2.0	B4	II	I	III	
Flyash	-1/64	30-45	30B	2.0	C4	II	I	III	G
Flyash, Coal	-1/64	30-60	30B	2.0	C4	II	I	III	G
Flyash, Fluidized Bed	-1/64	60-90	30B	3.0	C4	II	I	III	
Foundry Sand, Dry	-1/8	90-110	15	1.7	C4	III	I	III	



BULK MATERIAL TABLE

Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component / Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Fuller's Earth, Oil Filter, Burned	-1/8	40	15	2.0	C4	III	I	II	
Fuller's Earth, Oil Filter, Raw	-1/8	35-40	30B	2.0	B4	II	I	II	
Fuller's Earth, Oil Filter, Spent	35% oil	60-65	15	2.0	D4	III	I	III	I, O
Galena (Lead Sulfide)	-100M	240-260	30A	1.2	B4	II	I	II	G, L, P
Gelatin, Granulated	-1/8	32	30A	0.8	A2	I	I	III	J, K, M, V
Gilsonite	-1/2	37	30B	1.5	D4	II	II	III	H, L
Glass, Batch	-1/2	80-100	15	2.5	D4	III	I	III	
Glue, Ground	-1/8	40	30A	1.7	B4	II	I	IV	M
Glue, Pearl	-1/2	40	30A	0.5	A1-A2-A3	I	I	III	M
Glue, Veg. Powdered	-1/64	40	30A	0.6	A1-A2-A3	I	I	IV	M
Gluten Cake, Wet	-1/2	30-50	30A	2.5	A2	I	I	IV	
Gluten, Meal, Dry	-1/8	30-40	30A	0.6	A2	I	I	III	J
Granite, Broken	+1/2	95-100	15	2.5	D4	III	I	II	
Granite, Fines	-1/2	80-90	15	2.5	C4	III	I	II	
Grape, Pomace	-3	15-20	30A	1.4	B4	I	I	IV	M, Q, V
Graphite Flakes	-1/8	40	45	0.5	A1-A2-A3	I	I	II	F, J, V
Graphite Flour	-100M	28	30A	0.5	A1-A2-A3	I	I	III	F, G, J, V
Graphite Ore	+1/2	65-75	30A	1.0	B4	I	I	III	F
Grass Seed	-1/8	10-32	30A	0.4	A2	I	I	III	H, Q
Guano, Dry	-1/2	70	30A	2.0	C1-C2	I	I	III	•
Gypsum, Calcined	-1/8	55-60	30A	1.6	B4	I	I	III	M
Gypsum, Calcined, Powdered	-100M	60-80	30A	2.0	B4	I	I	III	M
Gypsum, Raw	-3	70-80	30A	2.0	B4	I	I	II	
Green Vitriol (Ferrous Sulfate)	-1/2	50-75	30B	1.0	B4	II	I	II	
Hay, Chopped	-1/2	8-12	30A	1.6	B1-B2	I	I	III	D, Q, •
Hexanedioic Acid (Adipic Acid)	-100M	45	30A	0.5	D3	I	I	III	H, M
Hominy	-1/2	35-50	30A	0.4	A1-A2-A3	I	I	II	J, V
Hops, Spent, Dry	-3	35	30A	1.0	B1-B2-B3	I	I	III	V
Hops, Spent, Wet	-3	50-55	30A	1.5	D3	I	II	IV	N, V
Hydroxybenzoic Acid (Salicylic Acid)	-1/8	29	15	0.6	C4	III	I	III	M
Ice, Crushed	-3	35-45	30A	0.4	B1-B2	I	I	III	K, V
Ice, Cubed	-3	33-35	30A	0.4	A2	I	I	III	K, V
Ice, Flaked	-1/2	40-45	30A	0.6	A2	I	I	III	K, V, •
Ice, Shells	-3	33-35	30A	0.4	A2	I	I	IV	K, V
Ilmenite Ore	-3	140-160	15	2.0	C4	III	I	III	
Iron Ore	-1/64	120-180	15	2.2	C4	III	I	III	
Iron Oxide Pigment	-100M	25	30B	1.0	A1-A2-A3	II	I	III	F, G, J

**BULK MATERIAL TABLE**

Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component /Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Iron Oxide, Millscale	-1/2	75	30B	1.6	B4	I	I	III	
Kafir (Corn)	-1/2	40-45	30A	0.5	C4	I	I	II	V
Kaolin Clay	-3	63	30A	2.0	B4	I	I	II	
Kaolin Talc	-1/64	42-56	30A	2.0	B4	I	I	III	F, G, J
Lactose	-1/64	32	30A	0.6	A2	I	I	III	H, J, M, P
Lead Arsenate	-1/64	72	30A	1.4	A1-A2-A3	I	I	III	G, L
Lead Arsenite	-1/64	72	30A	1.4	A1-A2-A3	I	I	III	G, L
Lead Carbonate	-1/64	240-260	30A	1.0	B4	I	I	III	G, L
Lead Ore	-1/8	200-270	30A	1.4	C4	I	I	III	L
Lead Ore	-1/2	180-230	30B	1.4	C4	II	I	III	L
Lead Oxide, Red Lead	-100M	30-150	30A	1.2	B4	II	I	III	G, J, L
Lead Oxide, Red Lead	-200M	30-180	30A	1.2	B4	II	I	III	F, G, J, L
Lead Sulfide	-100M	240-260	30A	1.0	B4	II	I	III	G, L, P
Lignite, Air Dried	-3	37-45	30A	1.0	B4	I	II	III	H
Lime, Hydrated	-1/8	40	30A	0.8	B4	I	I	III	F, G, P, V
Lime, Hydrated, Pulverized	-1/64	32-40	30A	0.6	A1-A2	I	I	III	F, G, P, V
Lime, Unslaked	-1/8	60	30A	0.6	A2	I	I	III	P, V
Lime, Pebble, Unslaked	-1/2	53-56	45	2.0	B1	I	I	II	C, M
Limestone, Agricultural	-1/8	68	30A	2.0	B4	II	I	III	
Limestone, Crushed	+1/2	85-90	30B	2.0	B4	II	I	III	
Limestone, Dust	-1/64	55-95	30B	1.6-2.0	B4	II	I	IV	G, Q
Limonite, Ore	-1/2	120	15	1.7	C4	III	I	IV	
Lindane (Benzene Hexachloride)	-100M	56	30A	0.6	A1-A2-A3	I	I	IV	L
Litharge (Lead Oxide)	-100M	30-150	30A	1.2	B4	II	I	III	G, J, L
Lithopone	-200M	45-50	30A	1.0	A1-A2	I	I	III	G, L
Magnesium Chloride (Magnesite)	-1/2	33	30A	1.0	A1-A2	I	I	IV	
Magnesium Sulfate (Epsom Salts)	-1/64	40-50	30A	0.8	A1-A2-A3	I	I	III	M
Maize	-1/8	40-45	45	0.4	A1-A2-A3	I	I	I	H
Malt, Dry, Ground	-1/8	20-30	30A	0.5	A1-A2-A3	I	I	III	H, J, L, Q, V
Malt, Dry, Whole	-1/2	20-30	30A	0.5	A1-A2-A3	I	I	III	H, V
Malt, Wet or Green	-1/2	60-65	30A	0.4	A1-A2-A3	I	I	III	
Malt, Meal	-1/8	36-40	30A	0.4	A1-A2-A3	I	I	II	J, V
Malt, Sprouts	-1/2	13-15	30A	0.4	A1-A2-A3	I	I	III	J, V
Manganese Dioxide	-100M	70-85	30A	1.5	B1-B2	I	II	III	H, L, •



BULK MATERIAL TABLE

Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component / Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Manganese Ore	+1/2	125-140	15	2.0	C4	III	I	III	
Manganese Oxide	-100M	120	30B	2.0	B4	II	I	III	
Manganese Sulfate	-1/2	70	15	2.4	C4	III	I	III	
Marble, crushed	-1/8	80-95	15	2.0	C4	III	I	III	
Marl (Clay)	+ 1/2	80	30B	1.6	B4	II	I	III	
Meat, Ground	-1/4	50-55	30A	1.5	B1-B2	I	II	IV	C, K, P, •
Meat, Scraps, With Bone	Scraps	40	30B	1.5	D4	II	I	IV	C, N, •
Mica, Flakes	-1/8	17-22	30B	1.0	B4	II	I	I	G, N, Q, V
Mica, Ground	-1/8	13-15	30B	0.9	B4	II	I	III	V
Mica, Pulverized	-100M	13-15	30B	1.0	B4	II	I	III	G, V
Milk, Dried, Flake	-1/8	5-6	30A	0.4	A2	I	I	III	H, J, M, Q
Milk, Malted	-1/64	27-30	30A	0.9	A2	I	I	IV	G, H, J, P
Milk, Powdered	-1/8	20-45	45	0.5	A2	I	I	II	G, H, J
Milk, Powdered, Whole	-1/8	20-36	30A	0.5	A2	I	I	III	J, M, P
Milk, Whole, Dried	-100M	20	30A	0.4	A2	I	I	III	G, J, M, P
Milk Sugar (Lactose)	-100M	32	30A	0.8	A2	I	I	III	H, J, P
Mill Scale (Steel)	Irregular	120-125	30B	3.0	C4	II	II	IV	
Milo, Ground	-1/8	32-36	30A	0.5	A1-A2-A3	I	I	II	V
Milo, Maize (Kafir)	-1/8	40-45	45	0.4	A1-A2-A3	I	I	I	H, V
Molybdenite Powder	-1/8	107	30A	1.5	B4	II	I	II	
Monosodium Phosphate	-1/8	50	30B	0.6	B4	II	I	III	
Mortar, Wet	Irregular	150	30B	3.0	C4	II	II	IV	
Muriate of Potash	-1/8	77	15	1.8	D4	III	III	II	
Mustard Seed	-1/8	45	45	0.4	A1-A2-A3	I	I	I	H, V
Naphtalene, Flakes	-1/8	45	30A	0.7	A1-A2-A3	I	I	III	V
Nicotinic Acid (Niacin)	-1/64	35	30A	0.8	B4	I	I	III	J
Oakite (Trisodium Phosphate)	-1/8	60	30B	1.7	B4	II	I	II	
Oats	-1/2	26	45	0.6	A1-A2-A3	I	I	li	G, H, V
Oats, Crimped	-1/2	19-26	30A	0.5	A1-A2-A3	I	I	III	V
Oats, Crushed	-1/8	22	30A	0.6	A1-A2-A3	I	I	IV	H, Q, V
Oats, Flour	-100M	35	30A	0.5	A1-A2-A3	I	I	III	V
Oats, Hulls	-1/8	8-12	30A	0.5	A1-A2-A3	I	I	III	H, Q, V
Oats, Rolled	-1/2	19-24	30A	0.6	A1-A2-A3	I	I	III	H, Q, V
Oleo (Margarine)	Irregular	59	30A	0.4	B1-B2	I	I	IV	C, E, J, O, P
Oranges, Peels, Dry	Irregular	15	30A	1.5	B1-B2	I	I	IV	
Oxalic Acid, Crystal—Ethane Diacid Crystal	-1/8	60	30A	1.0	A1-A2	I	III	III	K, M

**BULK MATERIAL TABLE**

Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component /Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Oyster Shells, Ground	-1/2	50-60	30B	2.0	B4	II	II	III	
Oyster Shells, Whole	-3	80	30B	2.5	B4	II	II	III	N
Paper Pulp, Stock	5%	62	30A	1.5	B1-B2	I	I	IV	N
Paper Pulp, stock	6-15%	60-62	30A	1.7	B1-B2	I	I	IV	N
Paraffin Cake, Broken	-1/2	45	30A	0.6	A1-A2	I	I	IV	E
Peanuts Meal	-1/8	30	30A	0.6	A2	I	I	III	J, V
Peanuts, Clean, Shelled	-3	15-20	30A	0.6	B1-B2	I	I	III	K
Peanuts, Raw, Uncleaned, Unshelled	-3	15-20	30B	0.7	C4	I	I	III	K
Peanuts, Shelled	-1/2	35-45	30A	0.4	A2	I	I	III	K, V
Peas, Dried	-1/2	45-50	45	0.5	A1-A2-A3	I	I	I	H, K, V
Perlite, Expanded	-1/2	8-12	30B	0.6	B4	II	I	III	
Phosphate Disodium	-1/8	50-60	30A	0.9	A1-A2	I	I	III	
Phosphate Acid, Fertilizer	-1/8	60	45	1.4	B1-B2	I	II	II	
Phosphate Rock, Broken	+ 1/2	75-85	30B	2.1	B2	II	I	III	
Phosphate Rock, Pulverized	-1/8	60	30B	1.7	B4	II	I	III	
Phosphate of Soda (Disodium Phosphate)	-1/64	25-31	30A	0.5	C4	I	I	III	K
Phosphate Sand, Granular	-1/8	90-100	15	2.0	C4	III	I	III	
Phosphoprotein (Casein)	-1/8	36	30B	1.6	B4	II	I	II	
Phosphoric Acid (Phosphate Acid)	-100M	60	30A	1.4	A2	I	I	II	
Plaster of Paris (Gypsum)	-200M	60-80	30B	0.9	B4	II	I	III	G
Polyethylene, Pellets	-1/8	35	30A	0.4	A2	I	I	III	J, K
Polystyrene Beads	-1/8	40	30A	0.4	A2	I	I	II	J, K, V
Polyvinyl Chloride, Pellets	Irregular	20-30	30A	0.6	A2	I	II	IV	E, J, K
Polyvinyl Chloride, Powder	-100M	20-30	30A	1.0	A1-A2-A3	I	II	IV	E
Potash, Dry (Muriate of Potash)	-1/8	70	15	2.0	D4	III	III	III	
Potash, Mine Run (Muriate of Potash)	+1/2	75	15	2.2	D4	III	III	III	



BULK MATERIAL TABLE

Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component /Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Potassium Carbonate	-1/8	51	30B	1.0	B4	II	II	III	
Potassium Chloride, Pellets	-1/2	120-130	30A	1.6	C4	I	II	II	M
Potassium Nitrate	-1/2	76	30B	1.2	D4	II	II	I	H, V
Potassium Nitrate	-1/8	80	30B	1.2	D4	II	II	II	H, V
Potassium Sulfate	-1/8	42-48	30B	1.0	B4	II	I	IV	P
Potato, Flour	-200M	48	30A	0.5	A1-A2	I	I	III	G, H, J, V
Pumice	-1/8	42-48	30B	1.6	C4	II	I	IV	
Pyrite, pellets	-1/2	120-130	30B	2.0	C4	II	I	II	
Quartz	-1/2	80-90	15	2.5	C4	III	I	II	
Quartz	-100M	70-80	15	1.7	C4	III	I	II	
Quicklime (Lime, unslaked)	-1/8	60	30A	0.6	A2	I	I	III	P
Red Lead (Lead Oxide)	-100M	30-150	30A	1.2	B4	II	I	III	G, J, L
Rice Bran	-1/8	20	30A	0.4	A1-A2-A3	I	I	III	H, Q, V
Rice Grits	-1/8	42-45	30A	0.4	A1-A2-A3	I	I	III	J, V
Rice Hulled	-1/2	45-49	45	0.4	A1-A2-A3	I	I	II	J, V
Rice Hulls	-1/8	20-21	30A	0.4	A1-A2-A3	I	I	III	H, Q
Rice Polished	-1/2	30	45	0.4	A1-A2-A3	I	I	I	J, V
Rice Rough	-1/2	32-36	30A	0.6	A1-A2-A3	I	I	III	H, V
Rosin	-1/2	65-68	30A	1.5	A1-A2-A3	I	I	IV	K, V
Rubber, Pelleted	-3	50-55	30A	1.5	B1-B2-B3	I	I	IV	
Rubber, Reclaimed, Ground	-1/2	23-50	30A	0.8	A1-A2-A3	I	I	IV	V
Rye	-1/8	42-48	45	0.4	A1-A2-A3	I	I	I	H, V
Rye, Bran	-1/8	15-20	30A	0.4	A1-A2-A3	I	I	III	Q, V
Rye, Feed	-1/8	33	30A	0.5	A1-A2-A3	I	I	III	H, V
Rye, Meal	-1/8	35-40	30A	0.5	A1-A2-A3	I	I	III	V
Rye, Middlings	-1/8	42	30A	0.5	A1-A2	I	I	III	V
Rye, Shorts	-1/2	32-33	30A	0.5	B1-B2	I	I	III	V
Safflower, Cake	-3	50	30B	0.6	B4	II	I	II	
Safflower, Meal	-1/8	50	30A	0.6	A1-A2-A3	I	I	III	V
Safflower, Seed (Safflower)	-1/8	45	45	0.4	A1-A2-A3	I	I	I	H, V
Sal Ammoniac (Ammonium Chloride)	-100M	45-52	30A	0.7	C1-C2	I	III	IV	A, L
Salicylic Acid	-1/8	29	15	0.6	C4	III	I	III	M
Salt, Dry Coarse	-1/2	45-60	30B	1.0	C4	II	II	III	M, V
Salt, Dry Fine	-1/8	70-80	30B	1.7	C4	II	II	III	M, V
Salt Cake, Dry, Coarse (Sodium Sulfate)	-1/8	85	30B	2.1	C4	II	II	III	M
Salt Cake, Dry, Pulverized (Sodium Sulfate)	-1/8	65-85	30B	1.7	C4	II	II	III	M

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Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component /Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Saltpeter (Potassium Nitrate)	-1/2	76	30B	1.2	C4	II	II	I	H
Sand, Dry Bank, Damp	-1/8	110-130	15	2.8	C4	III	I	IV	
Sand, Dry Bank, Dry	-1/8	90-110	15	1.7	C4	III	I	III	
Sand, Foundry, Prepared	-1/8	90	15	3.0	C4	III	I	III	
Sand, Foundry, Shakeout	-3	90-100	15	3.0	D4	III	I	III	R
Sand, Silica, Dry	-1/8	90-100	15	2.0	C4	III	I	II	
Sand, Silica, Resin Coated	-1/8	104	15	2.0	C4	III	I	II	
Sand, Zircon, Resin Coated	-100M	115	15	2.3	C4	III	I	II	
Sawdust, Dry	-1/8	10-13	30A	1.4	A1-A2-A3	I	I	IV	M, P
Sea-Coal	-1/8	65	30B	1.0	B4	II	I	III	
Sesame Seed	-1/8	27-41	30B	0.6	B4	II	I	II	V
Shale, Crushed	-1/2	85-90	30B	2.0	B4	II	I	III	
Shellac, Powdered or Granulated	-1/8	31	30A	0.6	A2	I	I	III	J, V
Silica Flour	-1/64	80	30B	1.5	B4	II	I	IV	
Silica Gel (Silicic Acid)	-3	45	15	2.0	C4	III	I	III	C, E, K, M
Silicon Dioxide (Quartz)	-1/2	80-90	15	2.5	C4	III	I	II	
Slag, Blast Furnace, Crushed	-3	130-180	15	2.4	D4	III	I	III	Q
Slag, Furnace, Granular, Dry	-1/2	60-65	15	2.2	A1-A2-A3	III	I	III	
Slaked Lime (Lime, Hydrated)	-1/8	40	30A	0.8	B4	I	I	III	F, G, P
Slate, Crushed	-1/2	80-90	30B	2.0	B4	II	I	III	
Slate, Ground	-1/8	82-85	30B	1.6	B4	II	I	III	
Sludge, Sewage, Dry	Irregular	40-50	30B	0.8	D4	II	II	IV	O
Sludge, Sewage, Dry, Ground	-1/8	45-55	30B	0.8	D4	II	II	IV	
Snow, Fresh	-1/8	5-12	30A	0.4	A2	I	I	IV	
Snow, Packed	+1/2	15-35	30A	0.8	B1	I	I	IV	
Soap, Beads or Granules	-1/8	15-35	30A	0.6	A1-A2-A3	I	I	III	K, M
Soap, Chips	-1/2	15-25	30A	0.6	A1-A2-A3	I	I	III	K, M
Soap, Detergent	-1/8	15-50	30A	0.8	A1-A2-A3	I	I	III	A, K
Soap, Flakes	-1/8	5-15	30A	0.6	A1-A2-A3	I	I	III	K, M, P, Q
Soap, Powder	-1/8	20-30	30A	0.9	A1-A2-A3	I	I	II	P
Soapstone (Talc)	-200M	40-50	30A	2.0	A1-A2-A3	I	I	IV	G, P, Q



BULK MATERIAL TABLE

Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component /Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Soda Ash, Heavy (Sodium Carbonate)	-1/8	55-65	30B	1.0	B4	II	I	III	
Soda Ash, Light (Sodium Carbonate)	-1/64	20-35	30B	0.8	B4	II	I	III	G, Q, V
Sodium Aluminate (Ground)	-1/8	72	30B	1.0	B4	II	I	III	
Sodium Aluminum Sulphate	-100M	75	30B	1.0	B4	II	I	III	•
Sodium Bicarbonate (Baking Soda)	-100M	40-55	45	0.6	A2	I	I	II	
Sodium Nitrate	-3	70-80	45	1.2	B1-B2	I	III	II	H
Sodium Phosphate	-1/8	50-60	30A	0.9	A1-A2	I	I	III	
Sodium Sulfate, Dry, Coarse	-1/8	85	30B	2.1	C4	II	II	III	M
Sodium Sulfate, Dry, Pulverized	-1/8	65-85	30B	1.7	C4	II	II	III	M
Sodium Sulfit	-1/8	96	30B	1.5	B4	II	I	IV	P
Sorghum Seed (Milo or Kafir)	-1/8	32-36	30A	0.5	A1-A2-A3	I	I	II	
Soybean, Dust	-1/64	25-35	30A	2.0	A1-A2-A3	I	I	III	G, H
Soybean, Cake	-1/2	40-43	30A	1.0	A1-A2-A3	I	I	III	O, V
Soybean, Cracked	-1/2	30-40	30B	0.6	B4	II	I	III	H, O, V
Soybean, Flakes, Raw	-1/2	15-35	30A	0.8	A1-A2-A3	I	I	III	Q, V
Soybean, Flakes, Spent	-1/4	18-20	30A	0.6	A2	I	I	II	Q, V
Soybean, Flour	-1/64	25-35	30A	1.0	A1-A2-A3	I	I	III	G, H, V
Soybean, Meal, Cold	-1/8	35-45	30A	0.6	A1-A2-A3	I	I	III	V
Soybean, Meal, Hot	-1/8	40	30A	0.6	D3	I	II	III	
Soybean, Whole	-1/2	45-50	30B	1.0	B4	II	I	II	H, O
Starch	-1/64	25-50	45	1.0	A1-A2-A3	I	I	I	G, H, V, •
Steel Turnings (Chips), Crushed	-3	100-150	30B	3.0	D4	II	I	IV	N, O
Stibium (Antimony)	-100M	•	30A	1.6	B4	II	I	II	•
Sugar, Powdered	-100M	50-60	30A	0.8	A2	I	I	III	H, J, P, V, •
Sugar, Raw, Cane	-1/8	55-65	30A	1.5	A2	I	I	III	H, J, P
Sugar, Refined, Granulated, Dry	-1/8	50-55	30A	1.0-1.2	A2	I	I	III	H, J, M, V
Sugar, Refined, Granulated, Wet	-1/2	55-65	30A	1.4-2.0	A2	I	I	III	P
Sugar Beet, Pulp, Dry	-1/2	12-15	30B	0.9	B4	II	I	II	H, •

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Bulk Material	Maximum Particle Size (in.)	Bulk Density (lbs/ft ³)	% Trough Loading	Material Factor (MF)	Component /Bearing Series	Abrasive-ness	Corrosive-ness	Flowability	Special Notes
Sugar Beet, Pulp, Wet	-1/2	25-45	30A	1.2	A1-A2-A3	I	I	III	H, P
Sulphur, Crushed	-1/2	50-60	30A	0.8	A1-A2	I	I	III	H
Sulphur, Ground	-1/64	50-60	30A	0.6	A1-A2	I	I	II	G, H
Sulphur, Lumps	-3	80-85	30A	0.8	D4	I	I	III	H
Sunflower Seed	-1/2	19-38	45	0.5	A1-A2-A3	I	I	I	V
Taconite, Pellets	+1/2	116-130	15	2.0	D4	III	I	II	K
Talc	-1/2	80-90	30B	0.9	B4	II	I	III	
Talc, Powder	-200M	50-60	30B	0.8	B4	II	I	III	G, P, V
Tanbark, Ground	-1/8	55	30A	0.7	A1-A2-A3	I	I	IV	•
Timothy Seed	-1/8	36	30A	0.6	B2	I	I	III	H, Q, V
Titanium Dioxide (Ilmenite)	-3	140-160	15	2.0	C4	III	I	III	
Tobacco, Scraps	-3	15-25	30A	0.8	B1-B2	I	I	IV	Q
Tobacco, Snuff	-1/8	30	30A	0.9	A1-A2-A3	I	I	IV	H, G, K, V
Tricalcium Phosphate	-1/64	40-50	30A	1.6	A1-A2	I	I	IV	
Triple Super Phosphate	-1/8	50-55	30B	2.0	C4	II	III	III	L
Trisodium Phosphate	-1/2	60	30B	1.7	B4	II	I	III	
Trisodium Phosphate, Granular	-1/8	60	30B	1.7	B4	II	I	III	
Trisodium Phosphate, Pulverized	-1/64	50	30B	1.6	B4	II	I	III	V
Tung Nuts	-3	25-30	30A	0.7	B1-B2	I	I	I	V
Tung Nut Meats, Crushed	-3	28	30A	0.8	B1-B2	I	I	II	O, V
Uintaitite (Bentonite)	-100M	50-60	45	0.7	B4	I	I	II	G, P, Q
Urea Prills, Coated	-1/8	43-46	45	1.2	A1-A2-A3	I	I	II	
Vermiculite, Expanded	-1/2	16	30A	0.5	A1-A2	I	I	III	Q
Vermiculite, Ore	-3	80	30B	1.0	B4	II	I	III	
Vetch	-1/8	48	30B	0.4	A1-A2-A3	II	I	I	H, V
Vulcanite (Ebonite)	-1/2	63-70	30A	0.8	A1-A2-A3	I	I	III	
Walnut Shells, Crushed	-1/8	35-45	30B	1.0	B4	II	I	III	V
Wheat	-1/2	45-48	45	0.4	A1-A2-A3	I	I	II	H, V
Wheat, Cracked	-1/8	40-45	45	0.4	A1-A2-A3	I	I	II	H, V
Wheat, Germ	-1/8	18-28	45	0.4	A1-A2-A3	I	I	II	V
White Lead, Dry	-1/64	75-100	30B	1.0	B4	II	I	III	G, L, V
Wood Bark	+1/2	8-16	30B	1.5	B1-B2	I	I	IV	N, Q
Wood Chips, Screened	-3	10-30	30A	0.6	B1-B2	I	I	IV	N, Q
Wood, Flour	-1/8	16-36	30A	0.4	A1-A2	I	I	III	H, P, Q, V
Zinc Concentrate Residue	-1/8	75-80	15	1.0	C4	III	I	III	
Zinc Oxide, Heavy	-100M	30-35	30A	1.0	A1-A2	I	I	IV	G, P
Zinc Oxide, Light	-100M	10-15	30A	1.0	A1-A2	I	I	IV	G, P, Q, V