



Grinding Media

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LOCATIONS

WEST COAST

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EAST COAST

3740 NW 124th Ave
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Ball Media

Generally, steel grinding balls are used with steel mills, ceramic balls are used with porcelain or ceramic lined mills and steel, ceramic, or other high density media is used with elastomer lined mills. Porcelain balls have a SG of 2.3 and have a average weight/volume of 12.8 pounds per gallon. High density alumina (ceramic) balls have a SG of 3.2 and have an average weight/volume of 17.5 pounds per



gallon. Steel balls have a SG of 7.7 and have an average weight/volume of 40 pounds/gallon. Higher density grinding media generally results in faster grinding in a ball mill. An optimum grinding charge for a ball mill may be experimentally determined, however generally the range is from 20% to 50% of the mill volume, or to the center line. Approximately 30-40% of the ball charge will be void space.

Ceramic Grinding Balls

These hard impervious spheres which are heavier than porcelain, mill faster with negligible silica contamination. They are wear and chip resistant and unaffected by most acids and alkali's. Specific gravity is 3.4, charging factor 8.5 lbs. per gallon.

Catalog #	Ball Diameter (in.)	No. per pound
010E-079	0.5	88
010E-080	0.75	45
010E-081	1.0	15
010E-082	1.25	10
010E-083	1.5	5
010E-084	2.0	2

Carbon Steel Grinding Balls

The carbon steel hardened grinding balls are triple forged.

Catalog #	Ball Diameter (in.)	No. per pound
010E-094	0.5	53
010E-093	0.75	17
010E-087	0.875	9.5
010E-088	1	7
010E-089	1.25	3.5
010E-090	1.5	2
010E-092	2	0.8

Chrome steel (52100) Grinding Balls

Catalog #	Ball Diameter (in.)	No. per pound
010E-091	0.1875	430+
010E-260	0.5	53
010E-261	0.625	26
010E-194	1	7
010E-101	1.1875	3
010E-199	1.4375	2
010E-264	2	0.08

Stainless Steel Grinding Balls

Catalog #	Ball Diameter (in.)	No. per pound
010E-198	0.25	430+
010E-197	0.5	53
010E-195	0.75	17
010E-266	1	7
010E-267	1.5	2



Rod Mill Charges

Rod mill charges come in Stainless steel and mild steel only.

Available in diameters from ¼" up to 1 ½" diameter And in Carbon steel or stainless-steel alloy.

Cut to fit.

Standard makeup for the Sepor Batch Rod/Ball Mill

- 9 ea of 3/8"
- 8 ea of 5/8"
- 7 ea of ½"
- 010E-016 in Carbon Steel
- 010E-099 in Stainless Steel