

GENUINE MOREHOUSECOWLES GRINDING MEDIA *Non-Ferrous Small Media*

MEDIA TYPE	g/cc	SIZES	USUAL VISCOSITY*	PRO**	CON**
Sand (Ottawa Silica)	2.7	0.8/1.3 mm	600/100 cps	Inexpensive, OK for white. Readily available.	Non-spherical. May "fracture." Limited sizes.
Soda Lime Glass	2.5	0.5/4 mm	600/100 cps	Uniform shape (spherical). Closely sized. High strength OK for white. Moderate cost. Readily available.	Viscosity limitation
YTZ	5.9	0.2/2.5 mm	1500-3000 cps	High density. Uniform shape. Long life, little wear.	High cost.
Modified Alumina 27% Silica Oxide (Mullite)	2.8	1/16" / 1/8"	1000/1600 cps	Very high strength. Long wearing. OK for white.	Not spherical. Not closely graded for sizes.
Ceramic Alumina Oxide	3.5	1/16" / 1/8"	1600/2500 cps	Very high strength. Long wearing. High density. OK for white.	Abrasive to mill parts. High cost. Not spherical. Not closely graded for sizes.
Zirconia Oxide	5.4	0.6/3.35 mm	2300 cps	Very high density and strength. Long wearing in high viscosities. OK for white.	Abrasive to mill parts in low viscosities. Not closely graded. Not spherical.
Zirconia Silicate	3.75	0.5/2.5 mm	1600/2900 cps	High density. Long wearing. High strength. OK for white. Closely graded. Spherical.	High cost. May be abrasive to mill parts in low viscosities.

*Viscosities measured at operating temperature with Brookfield type viscometer.
 **Relative words "high" & "low" refer to comparisons of Non-Ferrous medias only.

Ferrous Small Media

MEDIA TYPE	g/cc	SIZES	USUAL VISCOSITY*	PRO**	CON**
Steel Shot	7.1	0.25/3 mm	Over 2000 cps	High strength. High density. Can be separated magnetically. Inexpensive Fully hardened available.	Will cause greying of light colors. Non-spherical. Fairly soft R 45. Not as long wearing as some other steels.
High Carbon Steel Spheres	7.8	1.0/3.0 mm	Over 2000 cps	Strong High density. Can be separated magnetically. Uniform spheres. Thru hardened.	High cost. Not as long lasting as chrome steels. Will grey white.
Chrome Steel Spheres (52100)	7.8	1.0/4.7 mm	Over 2000 cps	Strong. High density. Can be separated magnetically. Uniform spheres. Thru hardened. Best wearing of steels. Resists corrosion.	Will grey white.
Stainless Steel Shot Type 302/304	7.8	0.5/1.5 mm	Over 2000 cps	Strong. High density. Uniform Spheres, very corrosion resistant.	Will grey white. Very high cost. Not hardenable with heat treatment, not as wear resistant as T-430 or chrome carbon steel. Cannot be magnetically separated.



For more information about grinding media, genuine COWLES blades, or spare parts for MorehouseCowles equipment, call 1-909-627-7222 or check the MorehouseCowles website at www.morehousecowles.com. MorehouseCowles offers the largest selection of grinding media available under one roof, satisfying all manufacturing media needs.