

Bulk Density (101)

As a general rule customers will buy a pot based on the capacity of the Blast Pot. Most will ask for a 600 pounder
 But what does this mean in terms of the amount of abrasive the pot will actually hold

- All Machines are filled by volume of abrasive
- The weight of each type of abrasive is different depending on volume
- The weight is called the “bulk density” of that abrasive

One of the most common, but no longer used abrasives, Silica Sand weighs 100 pounds per cubic foot, and a 6.5 cubic foot machine could “theoretically” hold 650 pounds of sand, if it could be totally filled.

The chart below shows the “Bulk Density” (weight per cubic foot and kilos per litre) of a number of Blast Cleaning Abrasives.

ABRASIVE TYPE	BULK DENSITY - Pounds/Cubic Feet	BULK DENSITY - Kilos/Litre
Silica Sand (No Longer Used)	100	1.6
Garnet	147	2.31
Steel Shot / Grit	250	4
Aluminium Oxide	120	1.93
Glass Shot	100	1.6
Plastic Grit	45 to 48	0.72
Walnut Shell	45	0.72
Sodium Bi Carbonate	61	0.98

So typically a 6 cubic foot machine will hold 600 pounds of Silica Sand. The same machine can hold 1500 pounds of Steel Grit, but only 270 pounds of Walnut Shells.

*All figures are based on 100% usage of inside space. Typical machines only use 75% of its inside space

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