

ABRASIVE SPOTLIGHT: STEEL SHOT & STEEL GRIT

Our Steel Shot and Steel Grit abrasives provide the strength and durability needed for the most difficult abrasive blasting jobs. Both abrasives also offer high recyclability and produce a low amount of dust during blasting compared to other types of abrasives, saving you money.

We get our steel shot and steel grit from Metaltec Steel Abrasive Company. Founded in 1981, Metaltec is the only American steel shot producer to succeed in the manufacturing of low carbon, Bainite steel shot. Learn more about Bainite and steel shot, as well as steel grit below.

STEEL SHOT

Steel Shot are spherical pellets made of molten steel through a granulation process. It is used in airless wheel blast machines for surface polishing and shot peening, as well as is in portable trackblast airless wheel blast machines for profiling and concrete floor preparation. Other common applications include railcars, structural steel and foundries.

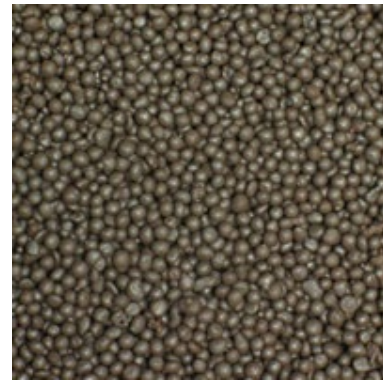
Metaltec's bainite cast steel shot is manufactured to SAE J2175 specification and is available in sizes ranging from S-780 thru S-70.

Benefits Include:

- Long lasting
- Can be recycled many times
- Low Dusting (High Visibility)
- Smoother/more polished surface

Common Uses:

- Shot peening
- Surface preparation
- Polishing
- Cleaning



Sizes

**070, 110, 170, 230, 280,
330, 390, 460, 550, 660,
780**

Hardness :

Rc 40-50

***Steel scrap surcharge
applies****

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BAINITE SHOT = LONGER LIFE

Bainite typically lasts 10-40% longer than Martenistic cast steel shot.

Metaltec manufactures Bainite which is a type of steel produced by cooling more slowly than martensite. Bainite has an ideal microstructure for cleaning and peening. It's lower carbon and higher manganese chemical composition results in a product that has longer life.

Bainite does not require additional tempering found with Martenistic shot. By omitting this tempering process, Metaltec's Bainite steel shot will be free of micro cracks and will wear at a controlled rate, while maintaining its overall shape and uniformity, giving it superior performance.

Metaltec Bainite

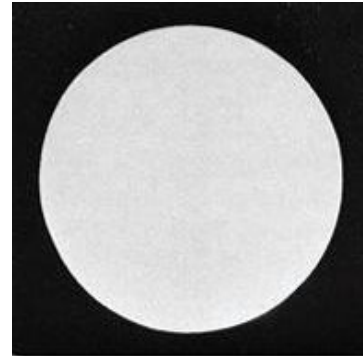
Longer life.

Greater durability.

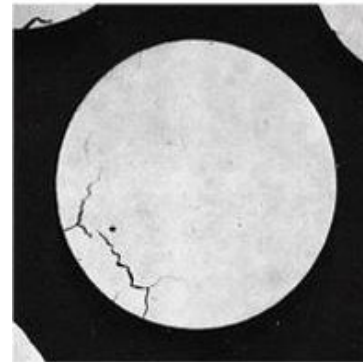
No microcracks.

Superior microstructure.

Best value.



Metaltec Bainite



Tempered Martensite

RECOMMENDATION: Since steel shot will wear down in size as it is reused, it should be retained in the blast machine for as long as possible. Therefore, it's critical that the machine is always functioning properly. It is recommended to **check the air wash/mag separator** at the start of every blasting shift to make sure that there is a full curtain, no gaps. Otherwise you could be losing usable material.

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STEEL GRIT

Steel Grit is made by mechanically fracturing steel shot. With its sharp edges and angular shape it is ideal for aggressive cleaning or surface preparation. Steel Grit's superior hardness and precise microstructure provides maximum durability and impact energy transfer. Softer than aluminum oxide, Steel Grit will not fracture as easily making it perfect for creating an etched surface on metal.

Common applications are railcars, structural steel and in foundries. Steel Grit offers a very fast stripping action for many types of surface contaminants from steels and other foundry metals.

Our Metaltec steel grit is manufactured to SAE J444, J1993 specification and is available in size ranges G14 to G120.

Benefits Include:

- Extremely Durable
- Fast cutting
- Can be recycled many times
- Low Dusting (High Visibility)

Common Uses:

- Surface preparation for adhesion of paint, epoxy, enamel, rubber and other coatings
- Descaling
- Surface etching
- Hard stone cutting



Sizes

14, 16, 18, 25, 40, 50, 80, 120

Hardness Levels

GS, GM, GL, GH

Steel scrap surcharge applies*

Hardness Level Description

GS: Standard Hard Grit (40-51 Rc) Safe for use in centrifugal wheel machines. Wear characteristics are similar to steel shot. Typically not suited for air blast applications.

GM: Medium Hard Grit (47-56 Rc) More aggressive than GS hardness, this can be used in both air and wheel blast applications.

GL: High Hard Grit (54-61 Rc) Provides a good balance of cleaning, speed, and durability. Excellent for air blast applications.

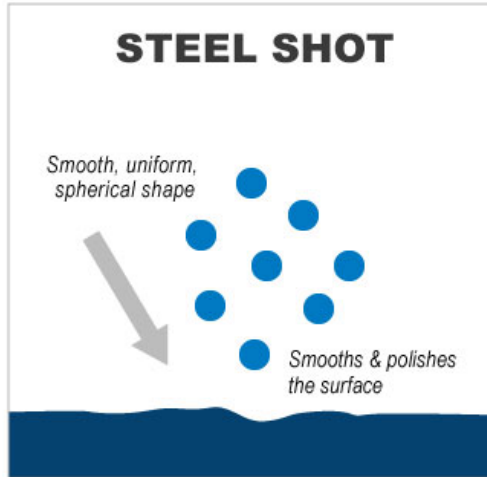
GH: Full Hard Grit (60+ Rc) Most aggressive media with no rounding characteristics. Provides fast cleaning for surface preparations. Used for heavy scale removal, epoxy cutting, stone work, etc.

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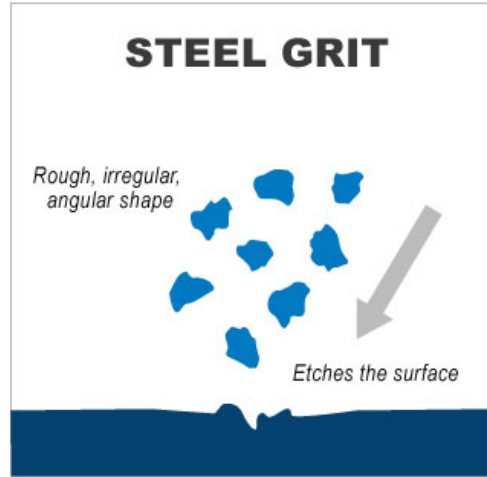
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STEEL SHOT vs STEEL GRIT



Steel Shot

- Spherical and uniform in shape.
- Provides a smoother surface.
- Ideal for cleaning and peening.



Steel Grit

- Random and angular in shape.
- Will etch or erode the surface.
- Ideal for pre-coating.

Call us today at **800-800-0665** to request a quote!

*Steel Scrap Surcharge

Steel scrap is the primary raw material used in the manufacture of cast steel shot & grit. History has proven the scrap market to have volatile swings from one month to the next. In the 1970s, a pricing structure for steel shot & grit was developed which allowed a surcharge to be applied to compensate for the ups and downs of the scrap market. [Read more scrap surcharge.](#)

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