



### High Carbon Steel Shot

steel shot of Faravardesh Fooladi Co. is a spherical product in the fully heat treated condition. it has a uniform structure of finely tempered martensite which provides optimum resilience and resistance to fatigue - special steel shot is also suited to shot peening applications where the shot is supplied in either standard or special hardness.

Mechanical Characteristic	SHOT		GRIT	
	Tempered Martensite	Special Shot	Tempered/Uniform Martensite	
Hardness	Steel Shot 38-48 (HRC)	Special Shot 47-53 (HRC)	GP 40-48 (HRC)	GL 50-60 (HRC)
Density	7 g/Cm <sup>3</sup>		GH 62-67 (HRC)	
Carbon	% 0.85 - 1.20			
Silicon	Min % 0.40			
Manganese	% 0.60 - 1.20			
Sulfur	Max % 0.05			
Phosphorus	Max % 0.05			

### STEEL SHOT

Product Size (mm) % - min & max cumulative percentages allowed on corresponding sieves

Product Size (mm)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
S930																				
S840																				
S780																				
S660																				
S550																				
S460																				
S390																				
S330																				
S280																				
S230																				
S170																				
S110																				
S70																				

### Steel Shot

SAE NO. Size mm	Actual size	Actual size	SAE NO. Size mm
S780 2.0 - 2.8			G10 2.0 - 2.8
S660 1.7 - 2.4			G12 1.7 - 2.4
S550 1.4 - 2.0			G14 1.4 - 2.0
S460 1.2 - 1.7			G16 1.2 - 1.7
S390 1.0 - 1.4			G18 1.0 - 1.4
S330 0.85 - 1.2			G25 0.7 - 1.2
S280 0.71 - 1.0			G40 0.42 - 1.0
S230 0.6 - 0.85			G50 0.3 - 0.710
S170 0.42 - 0.71			G80 0.18 - 0.42
S110 0.3 - 0.5			G120 0.125 - 0.3

### Steel Grit

### High Carbon Steel Grit

as cast steel angular grit produced by crushing specially heat treated oversize shot pellets.

#### GP STEEL GRIT: (40-48 HRC)

this abrasive, which is angular when new, rapidly becomes rounded in use, this type is particularly suited for removing sand of casting and scaling oxide.

#### GL STEEL GRIT (50 - 60 HRC)

it is harder than GP, it also loses its sharp edges during shot blasting and is particularly suited to heavy descaling and surface preparation requirements

#### GH STEEL GRIT (62 - 67 HRC)

GH has maximum hardness to maintain angularity during operation and provides a constant cutting (etching) action.

#### Granite Cutting (uses GH steel grit)

the process used for cutting hard stones, such as granite.

### STEEL GRIT

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G10																				
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G25																				
G40																				
G50																				
G80																				
G120																				



### Steel Cut Wire:

Faravardesh Fooladi Co.: is the first manufacturer of steel cut wire shot in IRAN. cut wire shots are made of high quality of cold drawn carbon steel wires, general purpose of cut wire abrasives are cleaning, de-scaling, de-burring, de-flashing and shot peening on components of iron and steel.

#### Cut Wire abrasives are in two types:

- 1- cylindrical cut wire (as-cut)
  - 2- conditioned cut wire
- GI (normal conditioned), G2 (double conditioned) and G3 (spherical conditioned), where G3 is the perfect rounded particle; it is a sphere. (Figure1)



Figure1: as cylindrical cut wire, Figure 2: b-conditioned cut wire (G3)

#### Characteristics:

<b>Bulk Density:</b>	>7.7g/cm <sup>3</sup>
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<b>Grain Shape:</b>	Cylindrical, Spherical conditioned cut wire(G1,G2,G3)
<b>Hardness:</b>	52-60 HRC,

#### Cut Wire

Cut-wire	Cut-wire Shot Size (mm)	Equivalent Cast Shot Size
CW12	0.3	S-70
CW14	0.35	S-110
CW17	0.45	S-170
CW20	0.5	----
CW23	0.6	S-230
CW28	0.7	S-280
CW32	0.8	----
CW35	0.9	S-330
CW41	1	S-390
CW47	1.2	S-460
CW54	1.4	S-550
CW62	1.6	S-660