



# STEEL SHOT AND GRIT TO SAE J444, J827 & J1993 SPECIFICATIONS, AMS 2431/1C & 2C PEENING MEDIA GRANITE CUTTING MEDIA

**SIGMA WEAR PARTS (PTY)LTD**  
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## QUALITY CONTROL

Our Products are produced in modern facilities in Europe, North America and South Africa by a team with over 70 years combined abrasives manufacturing experience.

All product is manufactured strictly to the SAE J444, J1993 and J827 specifications. Our laboratory is equipped with the most modern equipment and is able to conduct all quality testing to a high degree of efficiency and accuracy.

Sigma Wear Parts is also able to carry out abrasive applications testing in our in-house test blasting facility. We reserve the right to modify our products in line with our policy of continuous improvement.

## PACKAGING

The following packaging formats are available:

- 25 Kilogram bags boxed and palletised up to 1000 kilograms.
- 220 litre steel drum palletised up to 909 kilograms steel shot.
- 220 litre steel drum palletised up to 750 kilograms steel grit.
- Bulk bags palletised up to 1000 or 2000 kilograms.

## CUSTOMER SUPPORT

Sigma Wear Parts commitment to quality places our customers first. Our sales team has many years of abrasives experience and are able to give on the ground support and service as and when needed.

### CHEMICAL ANALYSIS

Carbon 0.80 - 1.2%  
Silicon 0.40 - 1.5%

Manganese  
S070 — S110 0.35 - 1.2%  
S170 0.50 - 1.2%  
S230 — S660 0.60 - 1.2%

### MICROSTRUCTURE

Uniform martensite tempered to a degree consistent with the hardness range.

### HARDNESS

Steel Shot 41 — 51 HRC  
Other hardnesses available upon request.

### DENSITY

The specific density of cast steel shot shall

### Steel Grit

> 61 HRC  
HG 54 — 61 HRC  
LG 47 — 56 HRC  
PG 47 — 56 HRC  
NG/SG 40 — 51 HRC

Other hardnesses available upon request.

### GRANITE CUTTING

Our GC grit is specially manufactured from selected base material to ensure the optimum shape for granite cutting.

Further more it is especially hardened and heat-treated to ensure maximum cutting efficiency.

Other sizes available upon request.



SAE SCREEN NUMBER	SCREEN SIZE MM	STEEL SHOT									
		S660	S550	S460	S390	S330	S280	S230	S170	S110	S070
8	2.360	All Pass									
10	2.000		All Pass	All Pass							
12	1.700	85% Min		5% Max	All Pass						
14	1.400	97% Min	85% Min		5% Max	All Pass					
16	1.180		97% Min	85% Min		5% Max	All Pass				
18	1.000			96% Min	85% Min		5% max	All Pass			
20	0.850				96% Min	85% Min		10%Max	All Pass		
25	0.710					96% Min	85% Min		10% Max		
30	0.600						96% Min	85% Min		All Pass	
35	0.500							97%Min		10% Max	
40	0.425								85% Min		All Pass
45	0.355								97% Min		10% Max
50	0.300									80% Min	
80	0.180									90% Min	80% Min
120	0.125										90% Min

SAE SCREEN NUMBER	SCREEN SIZE MM	STEEL GRIT								GRANITE CUTTING	
		G12	G14	G16	G18	G25	G40	G50	G80	GC20	GC25
8	2.360	All Pass									
10	2.000		All Pass								
12	1.700	80% min		All Pass							
14	1.400	90% Min	80% Min		All Pass					All Pass	All Pass
16	1.180		90% Min	75% Min		All Pass				10% Max	10% Max
18	1.000			85% Min	75% Min		All Pass			30-50%	30-50%
20	0.850									90% Min	60% Min
25	0.710				85% Min	70% Min		All Pass		98% Min	85% Min
30	0.600										
35	0.500										
40	0.425								80% Min	70% Min	
45	0.355										
50	0.300								80% Min	65% Min	
80	0.180									75% Min	65% Min
120	0.125										75% Min

