Stainless Steel Shot
Technical Data

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Sigma Stainless Steel Shot

α (CrNi) - -Ultra High Durability Stainless Steel Shot
β (Cr) - -Cost-Effective Stainless Steel Shot

Chemical Composition

	18/8 CrNi - Alpha		Cr 14 - Beta	
	Min %	Max %	Min %	Max %
C	0.05	0.20	0.05	0.35
Cr	16.00	20.00	10.00	14.00
Ni	6.00	9.00	0.20	2.00
Si	1.80	3.50	1.80	3.00
Mn	0.70	1.20	0.70	3.50

Common Applications

Stainless steel shot is commonly used in the cleaning and finishing of stainless steel and non-ferrous surfaces where ferrous surface contamination is undesirable, such as:

- Aluminum Castings & Parts
- Non-Ferrous Metals & Alloys
- Investment Castings
- Die Castings
- Stainless Steel Equipment and Fabrication

Manufacturing Excellence

Sigma Stainless Steel Shot is manufactured in the most modern production plant in the industry.The unique Sigma manufacturing process produces an extremely durable, spherical stainless steel shot at a very competitive cost. Sigma Stainless Steel Abrasives are distributed exclusively by Sigma Abrasives throughout North America.

Quick Facts

- Manufactured to obtain a very durable and highly spherical product
- Used in applications where corrosion cannot be tolerated

Product Details

	18/8 CrNi Alpha	Cr14 Beta
Hardness		
As cast hardness	±30 HRc	±45 HRc
Working Mix Hardness	±45 HRc	±52 HRc
Microstructure	Austenetic	Ferritic / Martensitic
Shape	Spherical/Round	Spherical

Stainless Steel Shot Sizes - Alpha (α) and Beta (β)

SIEVE NO.	MM	200	150	100	90	60	50	40	30	20	10
EQUIVALENT SAE NO.		S780	S660	S660/550	S390	S330	S280	S230	S110/70	S70	
	4.00	All Pass									
	3.35	10% Max									
7	2.80		All Pass								
8	2.36		10% Max								
10	2.00			All Pass							
12	1.70	90% Min		10% Max	All Pass						
14	1.40				10% Max	All Pass					
16	1.18		90% Min			10% Max	All Pass				
18	1.00			90% Min			10% Max	All Pass			
20	.850				90% Min			10% Max			
25	.710					90% Min					
30	.600						90% Min		All Pass		
40	.425							90% Min	10% Max	All Pass	
50	.300									10% Max	
60	.250										All Pass
80	.180								90% Min		10% Max
120	.125										
	.075									90% Min	
											90% Min