MANUFACTURERS OF STAINLESS STEEL SHOT AND GRIT

SIGMA WEAR PARTS (PTY)LTD
Tel: +27 (0)11 823 4443 - Fax: +27(0)11 823 3555
e-Mail: sales@sigmateamsa.com
6 Field Road, Lilianton, Boksburg
Gauteng, South Africa.
www.Sigmateamsa.com

SIGMA STAINLESS STEEL QUALITY CONTROL

Sigma Stainless Steel is the most modern facility in the world today having been designed by a team with over 70 years combined abrasives manufacturing experience.

CHEMICAL COMPOSITION

	18/8 CrNi - Alpha		Cr 17		Cr 14 - Beta		Cr 30 - Delta Grit	
	Min %	Max%	Min %	Max%	Min %	Max%	Min %	Max%
C	0.05	0.20	0.05	0.35	0.05	0.35	1.95	2.20
Cr	16.00	20.00	16.00	20.00	10.00	14.00	27.00	30.00
Ni	6.00	9.00	0.50	2.00	0.20	2.00	0.50	2.00
Si	1.80	3.50	1.80	3.00	1.80	3.00	1.80	2.20
Mn	0.70	1.20	6.00	15.00	0.70	3.50	0.7	

PRODUCT (Spherical)	18/8 CrNi Alpha	Cr17	Cr14 Beta
As Cast Hardness.	±30 HRC	±28 HRC	±35 HRC
Working Mix Hardness.	±45 HRC	±48 HRC	±50 HRC
MICROSTRUCTURE	Austenetic	Ferritic / Martensitic	

SIEVE SIZES Sieve No.	MM	STAINLESS STEEL SHOT									
		α200	α150	α100	α90	α60	α50	α40	α30	α20	α10
	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	0.850				90% Min			10% Max			
25	0.710					90% Min					
30	0.600						90% Min		All Pass		
40	0.425							90% Min	10% Max	All Pass	
50	0.300									10% Max	
60	0.250										All Pass
80	0.180								90% Min		10% Max
120	0.125										
	0.075									90% Min	
											90% Min
Equivalent SAE No.		S780	S660	S660/S550	S390	S330	S280	S230	S110/70	S70/50	S50

SIGMA STAINLESS STEEL CHARACTERISITCS

α (CrNi)	- Ultra High Durability Stainless Steel Shot
17% Cr	- High Durability Stainless Steel Shot
β (Cr)	- Cost Effective Stainless Steel Shot
Δ (Cr Grit)	- High Durability Aggressive Blast Media (Cost Effective Oxide Replacement)

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.

PRODUCT	Angular (Delta Grit)
As Cast Hardness	±59 HRC, Chrome Carbides - 1400HV
MICROSTRUCTURE	Martensite / Ferrite and Chrome Carbides

SIEVE SIZES Sieve No.	MM	STAINLESS STEEL GRIT									
		Δ10	Δ12	Δ14	Δ15	Δ18	Δ25	Δ40	Δ50	Δ80	Δ120
	4.00										
	3.35										
7	2.80	All Pass									
8	2.36		All Pass								
10	2.00			All Pass							
12	1.70	90% Min			All Pass						
14	1.40		90% Min			All Pass					
16	1.18			90% Min			All Pass				
18	1.00				90% Min			All Pass			
20	0.850										
25	0.710					90% Min			All Pass		
30	0.600										
40	0.425						90% Min			All Pass	
50	0.300							90% Min			
60	0.250										All Pass
80	0.180								90% Min		
120	0.125										
	0.075									90% Min	
											90% Min