

W ABRASIVES
SIZE SPECIFICATIONS



SHOT SIZE SPECIFICATIONS

Values given in cumulated weight %

Sieve #	7	8	10	12	14	16	18	20	25	30	35	40	45	50	80	120	200	Nominal dimension (mm)
mm	2.8	2.36	2.0	1.7	1.4	1.18	1.0	0.85	0.71	0.6	0.5	0.425	0.355	0.3	0.18	0.125	0.075	
S780	AP		> 90	> 97														2.00
S660	AP	< 20		> 97														1.70
S550		AP	< 30		> 90	> 97												1.40
S460			AP	< 30		> 90	> 97											1.18
S390				AP	< 20		> 85	> 97										1.00
S330					AP	< 10		> 85	> 97									0.85
S280						AP	< 30		> 90	> 97								0.71
S230							AP	< 30		> 90	> 97							0.60
S170								AP	< 30		> 90	> 97						0.50
S110									AP	< 20				> 90	> 97			0.30
S070											AP	< 5			> 90	> 97		0.18



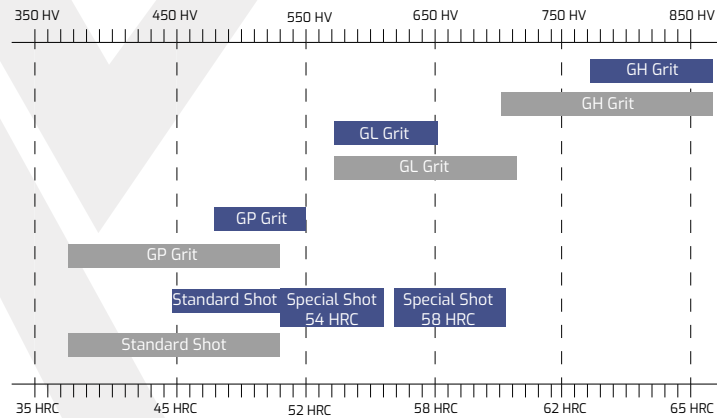
GRIT SIZE SPECIFICATIONS

Values given in cumulated weight %

Sieve #	7	8	10	12	14	16	18	20	25	30	35	40	45	50	80	120	200	Nominal dimension (mm)
mm	2.8	2.36	2.0	1.7	1.4	1.18	1.0	0.85	0.71	0.6	0.5	0.42	0.35	0.3	0.18	0.12	0.07	
G12	AP	< 20		> 85	> 97													1.70
G14		AP	< 10		> 80	> 90												1.40
G16			AP	< 10		> 80	> 90											1.18
G18				AP	< 30		> 85	> 97										1.00
G25					AP	< 40			> 85	> 95								0.71
G40						AP	< 20				> 90	> 96						0.50
G50								AP	< 10				> 80	> 90				0.355
G80											AP	< 20			> 75	> 90		0.18
G120													AP	< 10		> 50	> 80	0.125

HARDNESS GRADING

W Abrasives ISO 11124-3



Other specifications upon request



W Abrasives®
your key success factor

HIGH-CARBON STEEL
SHOT AND GRIT BY
W ABRASIVES

ALL WINOA SITES ARE CERTIFIED:

- ISO 9001
- ISO 14001
- ISO 45001



PE/0121/GB/WMA/087

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W Abrasives®
your key success factor

MAIN FEATURES OF
ABRASIVES

W ABRASIVES	Steel Shot	Steel grit GP	Steel grit GL	Steel grit GH
Shape	Round	Angular		
Chemical composition	%C 0,8-1,2 %Si 0,4-1,2 %S&P < 0,05 %Mn 0,35-1,2 S070 and S110 %Mn 0,5-1,2 for S170 %Mn 0,6-1,2 for S230 and above, all grit sizes			
Hardness	Shots: 450-530 HV (45-51 HRC) 540-610 HV (52-56 HRC) 620-700 HV (56-60 HRC) Grits: GP: 480-550 HV (48-52 HRC) GL: 570-650 HV (54-58 HRC) GH: ≥ 770 HV (≥ 63 HRC)			
Density	Absolute ≥ 7kg/dm3		Apparent ≥ 4kg/dm3	
Conductivity	< 30 μS/cm			
Microstructure x500	Tempered martensite with <15% of residual austenite			As-quenched martensite
Applicable specifications	SAE J444, SAE J827, SAE J1993, SSPC-AB3, ISO 11124-3 (except size distributions which follow W Abrasives specifications - see dedicated section)			

NUMBER OF PARTICLES PER KG IN NEW PRODUCTS

Product		Average diameter mm	Number of particles per kg of new product
Shot	Grit		
WS-780		2	25 000
WS-660	WG-12	1,7	42 000
WS-550	WG-14	1,4	70 000
WS-460	WG-16	1,18	120 000
WS-390	WG-18	1	205 000
WS-330		0,85	335 000
WS-280	WG-25	0,71	550 000
WS-230		0,6	925 000
WS-170	WG-40	0,5	1 660 000
	WG-50	0,35	4 930 000
WS-110		0,3	7 480 000
WS-70	WG-80	0,21	26 400 000



WELCOMING TOMORROW WITH A GLOBAL SERVICE PROVIDER

4 Test Centers
20 Technical Experts
150 Trials per year

BENEFIT FROM THE BEST EXPERTS



A global team of highly experienced application experts committed to deliver top-notch technical support and guide customers through the optimization of their blasting process.

LEARN AND GROW YOUR TEAMS



A full range of training solutions for operators, engineers, managers, to better master the blasting process and get the best from your machines.

TEAM UP WITH WINOA EXPERTS



A global network of testing facilities to optimize your process and tackle your challenges along with WinoA experts.

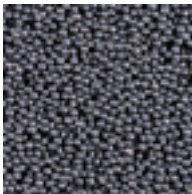
STANDARD



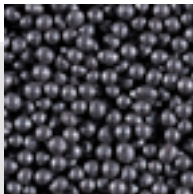
HIGH-CARBON STEEL SHOT

Quenched and tempered high-carbon steel shot for general blasting operations, characterized by high resilience and superior rebounding properties.

S 110



S 280



S 460



HIGH-CARBON STEEL GRIT

Quenched and tempered high-carbon steel grit for general blasting operations, available under 3 hardness levels.



G 16

GP GRIT

GP hardness grit typically used in cleaning and descaling operations, it rounds-up rapidly after few working cycles for an optimum balance between cleaning efficiency and machine wear.



G 25

GL GRIT

GL hardness grit typically used in surface preparation and descaling operations, its sharp edges get progressively smoothed during service, leading to higher efficiency than GP grit.



G 50

GH GRIT

GH hardness grit typically used in air-blasting operations, it keeps its sharp edges along its whole service life, ensuring sharp surface profiles and uniform, etched surface finish.

PREMIUM



PROFILUM
PREMIUM SERIES



PROFILUM

A ready-to-use operating mix for stringent air-blasting operations where surface profile consistency is a must.

SURFIUM
PREMIUM SERIES



SURFIUM

A high-performance grit for surface preparation by wheel-blasting, characterized by high lifetime and low dust generation during usage.

STAINIUM
PREMIUM SERIES



STAINIUM

A specially designed mix of shot and grit to ensure high-productivity of descaling operations and smooth surface finish.

PRO
WHEELIUM
PREMIUM SERIES



PROWHEELIUM

A cost-efficient alternative to GH grit for surface preparation operations done by wheel-blasting.

HPG
PREMIUM SERIES



HPG

A high-productivity grit for heavy-duty cleaning operations in foundries and forges.

HYBRID SHOT
PREMIUM SERIES



HYBRID SHOT

A specially heat-treated mix of shot and grit to reach the most cost-efficient balance between productivity and machine wear.

SPECIALTY PRODUCTS



STELUX
SPECIALTIES



STELUX

A stainless-steel abrasives range for blasting operations on non-ferrous or stainless steel substrates, available under 3 grades.

STELUX C

A 16%Cr - 1,5%Ni stainless steel shot.

STELUX CN

A 18%Cr - 8%Ni stainless steel shot.

STELUX CG

A 30% high chromium cast iron grit.

AMS
SPECIALTIES



AMS

A cast steel shot for peening operations in military and aerospace industries (fully meet AMS 2431 as well as many other proprietary standards).

HIGH DURABILITY
CUT WIRE



HIGH DURABILITY CUT WIRE

A high-durability conditioned cut-wire for shot-peening operations, manufactured by Toyo Seiko company in Japan.



W Abrasives®
your key success factor