

Metal Abrasives

Our Website

www.jxabrasives.com for abrasives media
www.dx-blast.com for surface treatment equipment

Email : sales01@dx-blast.com
Whatsapp/We chat: +86-153 5923 1657



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

JX Abrasives with 30 years development , is the leading manufacturer of blasting abrasives in China .it's including: steel shot ,steel grit , stainless steel shot ,cut wire shot .

We normally produce products following SAE standard, also can produce customized abrasives catering for customers' various requests, benefiting from our advanced production facility, technology and quality control system.



Steel Shot

Steel shot is a kind of round particles which made from top quality material by special heat treatment . it is widely used in surface cleaning and shot peening for the majority of Wheel blast applications. With the best elasticity and fatigue resistance, JX steel shot is the most durable and maximum cleaning efficiency.



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Steel Shot



2000 Reusable

Shots and grits are reusable up to thousands of time.



99% Waste reduction

By using recyclable cast steel abrasives, you drastically reduce your waste, having a positive environmental impact and significant disposal cost reductions!



+15% Productivity increase

Steel abrasive have a greater mass than mineral media (Garnet, Alu. Oxide, etc), which increases the speed and productivity of shot blasting.



-50% Production costs

Reduced consumption, increased productivity and reduced disposal costs = increase profits !



JX Abrasives

Complete Solutions for Surface Treatment

DX BLAST



Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment

ISO9001 Certificate

Performances



01

48 HRC Hardness – for optimal performances

With a hardness of 48 HRC, Abrasives' shot strike the right balance between consumption and efficiency: an amount of impact energy large enough to do the cleaning job desired, while being just soft enough to reduce the wear of the machine and media consumption.

02

Consistent surface finish

Formulated with a narrow hardness range, which equates for your production process a more consistent, stable and reliable cleaning results.

03

Reduced risk of coating failure

With our chloride and salt levels below 50 $\mu\text{S}/\text{cm}$, you are sure to reduce the possibility of surface contamination due to your abrasive, ensuring increased longevity of the coatings

04

SP version for High impact and Peening

Specific hardness are available for some hard to clean and peening applications. Typical targetted hardness are: 54 RHC and 58 RHC.



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

SAE	Application	Application Industry
S-780 S-660	Knock-out or descaling large cast iron, cast steel, iron pipe, forged piece and heat treatment piece.	<p>Blast cleaning : Use for blast cleaning of steel board. H type steel, steel pipe and all kinds of steel material, casting, die-casting, gorging, glass surface for industries of steel structure, construction, bridge, shipbuilding, pipes, container, locomotive, engineering machinery, automobile, casting, forging, glass, comodity.</p> <p>Shot peening: Used for shot peening of spring, shaft, gear, connecting bar, blade, chain, crank, wheel spares for industries of automobile, locomotive, ship, plain, machine.</p>
S-550 S-460	Knock-out, descaling, peening and shaping of medium-to-large cast iron, cast steel, forged piece, heat treatment piece, steel plate and pipe.	
S-390 S-330	Knock-out, descaling, peening and shaping of small-to-medium cast iron, ductile iron, cast parts, heat treatment piece, steel plate, sections, steel pipe, structural parts, chain and non-ferrous metals.	
S-280	Blasting small cast iron, cast part, heat treatment piece, cast aluminum, cast steel plate and cast copper alloy before gold-plating process to increase elasticity and toughness.	

General applications



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Steel Shot

Quick Details:

Chemical composition: C:0.80-1.2%, Si:≥0.4%, Mn:0.60-1.2%, S:≤0.05%, P:≤0.05%.

Density: >7.3g/cm.

Hardness (±3HRC): HRC40-50, HRC50-60, HRC60-65.

Microstructure: It should be uniformly tempered marten site with fine. Well distributed carbides.

Network carbides. Decarbonized surfaces. Inclusions or quench cracks are undesirable.

JX Steel shot is a kind of round particles which made from top quality material by special

Number of screen	Screw mesh (inch)	S930	S780	S660	S550	S460	S390	S330	S280	S230	S170	S110	S70
		SS280	SS240	SS200	SS170	SS140	SS120	SS100	SS80	SS70	SS60	SS40	SS30
6	0.132	0											
7	0.111	-	0										
8	0.0937	≥85	-	0									
10	0.0787	≥97	≥85	-	0	0							
12	0.0661		≥97	≥85	-	≤5	0						
14	0.0555			≥97	≥85	-	≤5	0					
16	0.0469				≥97	≥85	-	≤5	0				
18	0.0394					≥97	≥85	-	≤5	0			
20	0.0331						≥96	≥85	-	≤10	0		
25	0.0278							≥96	≥85	-	≤10		
30	0.0234								≥96	≥75	-	0	
35	0.0197									≥97	-	≤10	
40	0.0165										≥85	-	0
45	0.0139										≥97	-	≤10
50	0.0117											≥80	-
80	0.007											≥90	≥70
120	0.0047												≥90

Steel Shot Series



S780/SS2.5 S660/SS2.0 S550/SS1.7 S460/SS1.4 S390/SS1.2



S330/SS1.0 S280/SS0.8 S230/SS0.6 S170/SS0.5 S110/SS0.3



JX Abrasives

Complete Solutions for Surface Treatment

DX BLAST



Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment

ISO9001 Certificate

Steel Grit

Steel grit have sharp edges that help cleaning the surfaces easily . They are used for different applications : ship building,pipe building ,steel construction, granite cutting , tank manufacturing etc. JX Steel grit are very sucessful in abrasive blasting operations. Because a special heat treatment is done for the steel grit to have uniform microstructure.



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Steel Grit

Steel grit user benefits

Elevate your surface preparation game with our **steel grit abrasive**. Our commitment to quality shines through three key features that set our product apart.



100% Recyclable

Opt for our eco-friendly **steel grit blasting abrasive**, crafted from high carbon steel for long-lasting efficiency. Choose sustainability without compromising performance.



Air quenched

Experience lasting strength with our air-quenched steel grit. Through a unique thermal process, our high carbon grit delivers optimal results for your cleaning needs.



Globally Available

Rely on our **steel grit** for worldwide accessibility, providing a consistent and dependable source for all your surface preparation needs across continents.



JX Abrasives

Complete Solutions for Surface Treatment

DX BLAST



Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Steel Grit



2000 Reusable

Shots and grits are reusable up to thousands of time.



99% Waste reduction

By using recyclable cast steel abrasives, you drastically reduce your waste, having a positive environmental impact and significant disposal cost reductions!



+15% Productivity increase

Steel abrasive have a greater mass than mineral media (Garnet, Alu. Oxide, etc), which increases the speed and productivity of shot blasting.



-50% Production costs

Reduced consumption, increased productivity and reduced disposal costs = increase profits !



JX Abrasives

Complete Solutions for Surface Treatment

DX BLAST



Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment

ISO9001 Certificate

SAE	Application	Application Industry
G-12 G-14 G-16	Blasting/descaling medium-to-large cast steel, cast iron, forged pieces, steel plate and rubber adhered work pieces.	<p>Blast cleaning : Use for blast cleaning of steel board. H type steel, steel pipe and all kinds of steel material, casting, die-casting, gorging, glass surface for industries of steel structure, construction, bridge, shipbuilding, pipes, container, locomotive, engineering machinery, automobile, casting, forging, glass, comodity.</p> <p>Shot peening: Used for shot peening of spring, shaft, gear, connecting bar, blade, chain, crank, wheel spares for industries of automobile, locomotive, ship, plain, machine.</p>
G-18 G-25 G-40	Cutting/grinding stone; Blasting rubber adhered work pieces; Descaling steel plate, container, ship hall before painting; Cleaning small-to-medium cast steel, cast iron, forged pieces, etc.	
G-50 G-80 G-120	Blasting/descaling steel wire, spanner, steel pipe before painting process; Cleaning precision castings (eg. golf blocks)	



General applications



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Steel Grit

Quick Details: Density: >7.3g/cm³. Chemical Composition: C 0.80-1.2%, Si ≥0.4%, Mn 0.60-1.2%, S≤0.05%, P≤0.05%. Hardness(±3HRC):

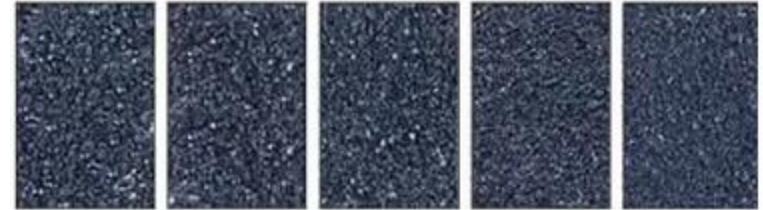
HRC40-51, HRC47-56, HRC54-61, HRC61-65. Description: It's crushed from high quality steel shot. The resulting angular particles were screened to range sizes G10, G12, G14, G16, G18, G25, G40, G50, G80, G120 as described in SAE J444. According to different requirement, do the heat treatment to control hardness to standard GP, GL, GH.

Number of screen	Standard (mm)	Screw mesh (inch)	G10	G12	G14	G16	G18	G25	G40	G50	G80	G120
			SG240	SG200	SG170	SG140	SG120	SG100	SG70	SG50	SG30	SG20
7	2.8	0.111	0									
8	2.36	0.0937	-	0								
10	2.00	0.0789	80	-	0							
12	1.70	0.0661	90	80	-	0						
14	1.40	0.0555		90	80	-	0					
16	1.18	0.0469			90	85	-	0				
18	1.00	0.0394				85	75	-	0			
20	0.85	0.0331					-	-	-			
25	0.71	0.0278					85	70	-	0		
30	0.60	0.0234						-	-	-		
35	0.50	0.0197						-	-	-		
40	0.425	0.0165						80	70	-	0	
45	0.355	0.0139							-	-	-	
50	0.300	0.0117							80	65	-	0
80	0.180	0.007								75	65	-
120	0.125	0.0049									75	60
200	0.075	0.0029										70

Steel Grit Series



G10/SG2.5 G12/SG2.0 G14/SG1.7 G16/SG1.4 G18/SG1.2



G25/SG1.0 G40/SG0.7 G50/SG0.4 G80/SG0.3 G110/SG0.2



JX Abrasives

Complete Solutions for Surface Treatment

DX BLAST 

Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Stainless Shot(Cut Wire)

Stainless Steel Shot
Size:0.2/0.3/0.4/0.5/0.6/0.8/1.0mm



Stainless steel shot is used for cleaning, deburring, descaling and surface finishing of a wide variety of stainless steel, titanium, aluminum, or other non-ferrous alloy castings, molds and fabrications. The 316 type stainless steel has good resistance to chloride corrosion, it is suitable used in the marine environment. Due to non-magnetic, it is also used in tumbling or vibratory applications.



 **JX Abrasives**
Complete Solutions for Surface Treatment

DX BLAST 
Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Stainless Shot(Cut Wire)

User benefits of stainless steel

- Considerably **increased durability**, allowing reuse up to 1000 times
- Higher mass of each grain, which **increases energy and cleaning efficiency and speed**
- **Less machine wear**, thanks to its hardness just below the equipment components
- Reduces or could avoid using chemical cleaning or acid pickling processes
- Eliminates the possibilities of having embedded iron particles, avoiding rusting & pitting
- Leaves a thin passive layer that prevents surface corrosion due to the chromium in the medias well as almost **zero dust blasting production**



CLEANLINESS, DURABILITY, ECONOMIC Advantages of stainless steel media



Cleanliness

Longer coating durability



Roughness

Better coating adhesion



Process control repeatability

Higher quality consistency



JX Abrasives

Complete Solutions for Surface Treatment

DX BLAST



Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment

ISO9001 Certificate

Quick Details:

Size: 0.2mm-3.0mm.

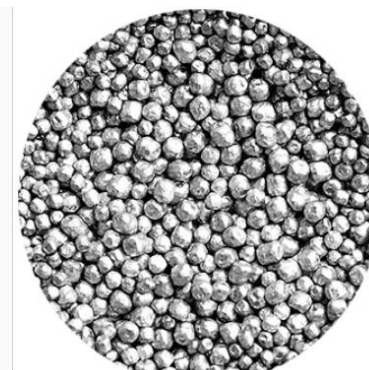
Hardness: 200-450/400-600/600-700HV.

Density: 7.7g/cm³ Min.

Available Grades: SUS 304, SUS 202, SUS 430.

Standard of Country				Chemical Composition									Micro-Structure
USA	German	UK	Japan	C	Si	Mn	P Max	S Max	Ni	Cr	Mo	N	
AISI	W-Nr	DIN KURZNAME	BS	JIS	Max	Max	Max					Max	
201	1.4372			SUS 201	0.15	1	5.5-7.5	0.06	0.03	3.50-5.50	16.00-18.00	0.25	
202	1.4373			SUS 202	0.15	1	7.5-10.0	0.06	0.03	4.00-6.00	17.00-19.00	0.25	
301	1.4310	X12Cr Ni 177	301S21	SUS 301	0.15	1	2	0.045	0.03	6.00-8.00	16.00-18.00	-	
304	1.4301	XDCr Ni 189	304S16	SUS 304	0.08	1	2	0.045	0.03	8.00-10.50	18.00-20.00	-	
316	1.4401	X15 Cr Ni Mo 1810	306S16	SUS 316	0.08	1	2	0.045	0.03	10.00-14.00	16.00-18.00	2.0-3.0	
410	1.4006	X10 Cr 13	410S21	SUS 410	0.15	1	1	0.04	0.03	0.6	11.50-13.50	-	
430	1.4016	X8Cr 17	430S17	SUS 430	0.12	0.75	1	0.04	0.03	0.6	16.00-18.00	-	

PRODUCT PARAMETER



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Applications

Our stainless steel shot is designed for a wide array of applications, meeting diverse needs across various industries.

- **Metal treatments**

Galvanized steel, non-ferrous metals / casting & parts

Stainless steel, nickel based, zinc & titanium alloys

Castings, forgings and welded parts

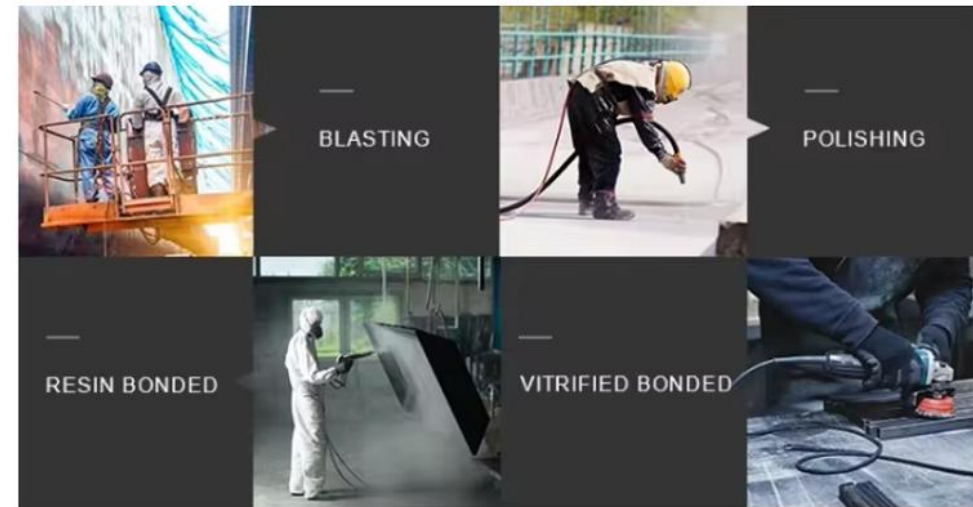
- **Surface preparations**

Prior powder coatings, painting

For insulation prep

Roughening surfaces prior to bonding

Removal of weldment bluing and surface finishing



- **Cleaning & removal**

Brush blasting for “white rust” removal (zinc oxide)

Paint removal

Surface preparation & cutting in wet environment

- **Specialized processes**

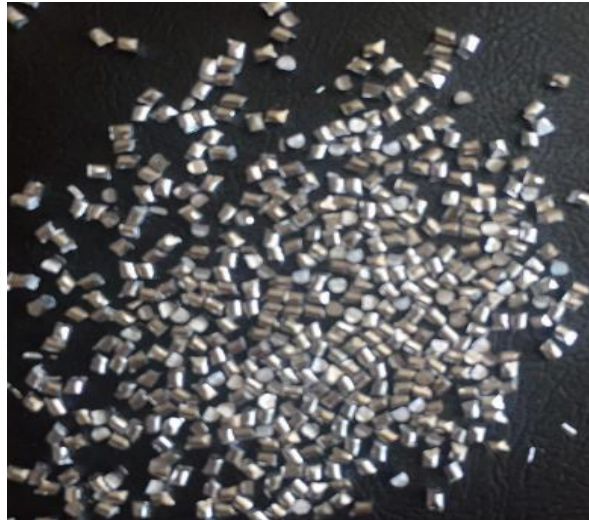
Removal of heat treatment scales, forgings & castings released agents

Preconditioning step prior to chemical process or acid pickling

Ceramic removal & finishing for investment castings

Aluminum Shot/Cut Wire

Aluminum Metal Shot is used for removing oxidation skin, burr, eliminating surface defect, removing stress, etching, unknit, strengthen, prevention rust before painting of metal die-casting, precision casting, hardware tool, machinery manufacturing, automobile spare parts, apparatus, pump valve industry.



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Aluminum Shot/Cut Wire

Hardness:40-60HV/95-125HV

Size:0.6-3.0mm

Density:2.7g/cm3

Equivalent Shot Sizes		
Cut-wire Size (Inches)	Cut-wire Shot Size(mm)	Cast steel Shot Size
0.012	0.30	S-70
0.017/0.018	0.40/0.45	S-110
0.020/0.023	0.50/0.60	S-170
0.028	0.70	S-230
0.032/0.035	0.80/0.90	S-280
0.035/0.041	0.90/1.00	S-330
0.041/0.047	1.00/1.20	S-390
0.054	1.40	S-460
0.062	1.60	S-550
0.080	2.00	S-660
0.090	2.30	S-780
0.126	3.20	S-1110

Type	Si	Cu	Mn	Mg	Al
1070	0.2	0.04	0.03	0.03	99.7%
5056	0.3	0.1	0.05-0.2	4.5-5.6	remainder

PRODUCT PARAMETER



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Aluminum Shot/Cut Wire

Application	Features
<p>Blast cleaning : Use for blast cleaning of steel board. H type steel, steel pipe and all kinds of steel material, casting, die-casting, gorging, glass surface for industries of steel structure, construction, bridge, shipbuilding, pipes, container, locomotive, engineering machinery, automobile, casting, forging, glass, comodity.</p> <p>Shot peening : Used for shot peening of spring, shaft, gear, connecting bar, blade, chain, crank, wheel spares for industries of automobile, locomotive, ship, plain, machine.</p>	<p>Specific gravity greater than other sand blasting beads.</p> <p>Hardness is lower than steel ball and glass beads.</p> <p>Applies to fear high impact but low sand material hardness of the sand blasting operations.</p>



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Zinc Shot/Cut Wire

The softness of zinc shot is suitable for operation in deburring die castings, and removing impregnated sand from sand castings.

It can remove coatings from soft alloy cast parts without damage, and leaves a thin film of zinc on the work pieces which provide corrosion resistance.

It is widely used in surface blasting treatment of various products such as aluminum and zinc die-casting parts.



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Zinc Shot/Cut Wire

Application	Features
<p>Blast cleaning : Use for blast cleaning of steel board. H type steel, steel pipe and all kinds of steel material, casting, die-casting, gorging, glass surface for industries of steel structure, construction, bridge, shipbuilding, pipes, container, locomotive, engineering machinery, automobile, casting, forging, glass, comodity.</p> <p>Shot peening : Used for shot peening of spring, shaft, gear, connecting bar, blade, chain, crank, wheel spares for industries of automobile, locomotive, ship, plain, machine.</p>	<p>Compared with other pellets, the dust has an extremely low ignition point, is safe, and has a significant whitening effect on the surface of the workpiece.</p>



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Zinc Shot/Cut Wire

Density:7.1g/cm³

Hardness:35-55HV

Size:0.6mm-3.0mm

Chemical composition:Zn:99.99% Fe:0.004% Al:0.003% Cu:0.001% Co:0.002%

Equivalent Shot Sizes

Cut-wire Size (Inches)	Cut-wire Shot Size(mm)	Cast steel Shot Size
0.012	0.30	S-70
0.017/0.018	0.40/0.45	S-110
0.020/0.023	0.50/0.60	S-170
0.028	0.70	S-230
0.032/0.035	0.80/0.90	S-280
0.035/0.041	0.90/1.00	S-330
0.041/0.047	1.00/1.20	S-390
0.054	1.40	S-460
0.062	1.60	S-550
0.080	2.00	S-660
0.090	2.30	S-780
0.126	3.20	S-1110

Type	Si	Cu	Mn	Mg	Ai
1070	0.2	0.04	0.03	0.03	99.7%
5056	0.3	0.1	0.05-0.2	4.5-5.6	remainder

PRODUCT PARAMETER



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Copper Shot/Cut Wire

Copper cut wire shots are commonly used for surface polishing, shot-peening, color processing of valves, electric fittings, ornaments, and other workpieces. Our company has expertise in providing a vast range of copper cutting wire shots that meet the standards of global requirements.



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Copper Shot/Cut Wire

Properties of Copper Cut Wire Shot

Conductivity Advantage	This feature is used by copper cut wire shot to effectively disperse heat generated during surface treatment procedures, decreasing the danger of thermal damage to the workpiece. Its conductivity is especially useful in applications where heat control is crucial, such as those in the aerospace and electronics sectors .
Low Hardness Benefit	Copper cut wire shot has a comparatively low hardness, it is appropriate for sensitive surfaces or materials that require a milder abrasive action. It is capable of successfully removing surface impurities while inflicting minimal damage or distortion.
Non-Ferrous Advantage	Copper cut wire shot contains no iron or ferrous elements. This feature makes it excellent for applications requiring the avoidance of ferrous contamination, such as in the automotive or electronics sectors .
Non-Sparking Safety	Copper cut wire shot is non-sparking, making it an excellent choice for usage in potentially combustible or explosive settings. It is excellent for applications in sectors such as oil and gas, shipbuilding, and chemical processing .
Corrosion Resistance	Copper has strong corrosion resistance, and this quality extends to copper cut wire shot as well. It can endure dampness and some corrosive situations without deterioration or corrosion.
Malleability Feature	Copper is a very malleable metal, copper cut wire shot can adhere to uneven surfaces and efficiently clean or treat difficult-to-reach regions.



JX Abrasives

Complete Solutions for Surface Treatment

DX BLAST 

Supply A Better Solution For Surface Treatment

Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Copper Shot/Cut Wire

Hardness:40-60HV/95-125HV

Size:0.6-3.0mm

Density:2.7g/cm3

Equivalent Shot Sizes

Cut-wire Size (Inches)	Cut-wire Shot Size(mm)	Cast steel Shot Size
0.012	0.30	S-70
0.017/0.018	0.40/0.45	S-110
0.020/0.023	0.50/0.60	S-170
0.028	0.70	S-230
0.032/0.035	0.80/0.90	S-280
0.035/0.041	0.90/1.00	S-330
0.041/0.047	1.00/1.20	S-390
0.054	1.40	S-460
0.062	1.60	S-550
0.080	2.00	S-660
0.090	2.30	S-780
0.126	3.20	S-1110

Type	Si	Cu	Mn	Mg	Al
1070	0.2	0.04	0.03	0.03	99.7%
5056	0.3	0.1	0.05-0.2	4.5-5.6	remainder

PRODUCT PARAMETER



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate

Packaging Details:

- 1) 25kg/pp(paper) bag, 40 bags in one ton bag.
 - 2) 25 kg/pp(paper)bag, then 40 bags on one pallet
- Generally, one 20GP can load 25 tons, 27 tons at most. All packages are lined with waterproof materials. We can also pack the products as you requirements.

Delivery Detail:

In 7 days after advanced payment.

Notice:

- 1) Store in a dry place. No safety risk but oxidation and aggregation may occur in the presence of moisture. Handle with care to avoid damage to packaging to avoid spillage.
- 2) Lifetime: it is 2500-2800 times in the normal condition.
- 3) Our package is moisture-proof bag.



Expert In Metal abrasives & Shot Blasting Equipment
ISO9001 Certificate