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BLASTRAC

AIRBLAST

GRACO

Bullard

APRO 100

Powerful of Surface Cleaning & Coating

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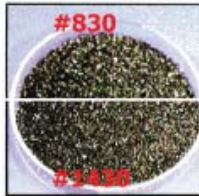
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ABRASIVE BUILT FOR SPEED AND SAFETY

COPPER SLAG

Copper Slag is produced as a by-product of copper smelting. After processing of the product. It is used in the ship repairing industry as blast cleaning



abrasive for surface preparation purpose to remove scale, Rust and corroded materials from ship hull, tanks, Etc. before the painting contractors could proceed with their repainting jobs. Its shape, Hard cutting edges provide a fast cleaning action and excellent surface profile preparation # 830=2.36-0.06 mm. Suitable for the removal of thick rust and coating leaving a surface profile of approximately 120 micron

#1430=1.40-0.06 mm. Ideal size for the removal of surface irregularities to improve surface finish. To remove mill scale and medium rust surfaces providing surface profile of up to 100 microns

GARNET



General description: Almandine garnet is a chemically inert non-metallic mineral that is quite common in the natural environment. It is found in trace amounts in most river and beach sand sand is known for its hardness and toughness make Almandine garnet ideal for many abrasive application

hardness: 7.5-8.0 per Moh's scale

Specific gravity: 4.0-4.1

Acid solubility: < 1%

Melting point: 1,315 C

chloride content: < 25 PPM

Free silica content: < 0.5%

Mesh mm	1,700 0.600	1,100 0.425	0,850 0.300	0,850 0.180	0,600 0.180	0,425 0.125	0,300 0.125
Retained %	%	%	%	%	%	%	%
12	1,700	1,17					
16	1,100	11,58	0,12				
18	1,000	74,21	19,58				
20	0,850	8,36	46,88	0,17	0,14		
30	0,600	4,68	33,10	31,25	12,70	1,20	
40	0,425		0,32	60,68	32,40	28,50	0,02
50	0,300			7,90	44,62	53,20	46,30
60	0,250				7,54	14,60	37,70
80	0,180					2,60	15,64
120	0,125						0,34
							3,80

STEEL GRIT APPLICATION

Chemical Composition

The finished grit shall have the chemical compositions as follows :

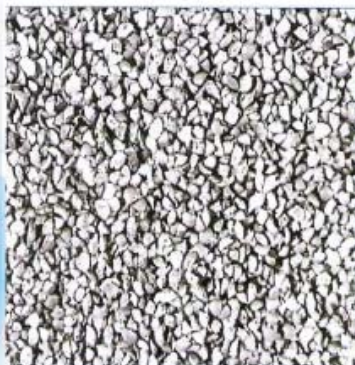
Carbon	0.85-1.20	%
Silicon	0.40-1.50	%
Manganese	0.35-1.20	%
Phosphorus	<0.05	%
Sulfur	<0.05	%

Standard Hardness

The steel grit is manufactured by crushing the fully hardened shot to granular grit form, screening and tempered to three different hardness range as follows :

GH	=	63 - 65	HRC
GL	=	56 - 60	HRC
GP	=	40 - 50	HRC

It is also available in tempering to various hardness range for special application



Size Distribution (as per SAE J 827)

Mesh No	Size (mm)	G-10	G-12	G-14	G-16	G-18	G-20	G-25	G-30	G-36	G-40	G-50	G-60	G-70	G-80	G-100	G-120	If any
7	2,800	All pass																
8	2,360		All pass															
10	2,000	80% min		All pass														
12	1,700	90% min	80% min		All pass													
14	1,400		90% min	80% min		All pass												
16	1,180			90% min	75% min		All pass											
18	1,000				85% min	75% min		All pass										
20	0,850								All pass									
25	0,710									85% min	70% min							
30	0,600																	
36	0,500																	
40	0,425										85% min	70% min						
48	0,355																	
60	0,300											80% min	65% min					
80	0,180												75% min	60% min				
120	0,125													75% min	60% min			
200	0,075														70% min			

STEEL SHOT APPLICATION

Chemical Composition

The finished shot shall have the chemical compositions as follows :

Carbon	0.85-1.20	%
Silicon	0.40-1.50	%
Manganese	0.35-1.20	%
Phosphorus	< 0.05	%
Sulfur	< 0.05	%

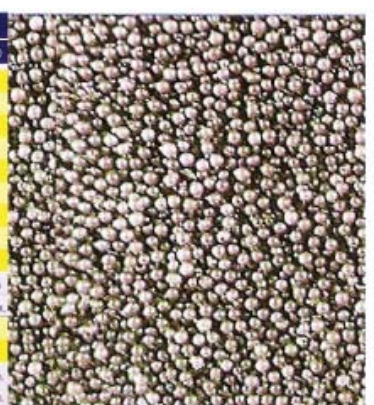
Standard Hardness

The hardness of 90% of all shot particles shall be within the range of 40-50 HRC. (Rockwell C)

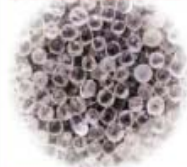
General Appearance

The steel shot shall be as nearly spherical as commercially possible and no more 20% of the shot particles shall have objectionable defects.

Mesh No	Size (mm)	S-780	S-660	S-550	S-460	S-360	S-300	S-280	S-230	S-170	S-110
7	2,800	All pass									
8	2,360		All pass								
10	2,000	85% min		All pass	All pass						
12	1,700	92% min	85% min		5% max	All pass					
14	1,400		92% min	85% min		5% max	All pass				
16	1,180			92% 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
36	0,500								92% min		10% max
40	0,425									85% min	
48	0,355										92% min
60	0,300										80% min
80	0,180										90% min



GLASS BEADS APPLICATION



For cleaning, peening, finishing, polishing for use on ferrous and non-ferrous metals and alloys hard or soft, plastics, ceramics and the new advanced composite. Glass beads are manufactured from high grade crown glass of soda-lime type containing no less than 62 percent silica, This means **NO FREE SILICA** therefore no silicosis

GRADATIONS (MIL-G-9954A)

MIL SIZE	SCREEN SIZE	MICROMETER m SIZE	TYLER MESH (STD. DIA)
3	20-30	850-600	0.0328-0.0232
4	30-40	600-425	0.0232-0.0164
5	40-50	425-300	0.0164-0.0116
6	50-70	300-212	0.0116-0.0082
7	60-80	250-180	0.0097-0.0069
8	70-100	212-150	0.0082-0.0058
9	80-120	180-125	0.0069-0.0049
10	100-170	150-90	0.0058-0.0035
11	120-200	125-75	0.0049-0.0029
12	140-230	106-63	0.0041-0.0024
13	170-325	90-45	0.0035-0.0017

ALUMINIUM OXIDE

PHYSICAL & CHEMICAL	BROWN
PROPERTIES	AL ₂ O ₃
COLOUR	Dark Brown
PHYSICAL NATURE	Hard & very tough
PARTICLE SPECIFIC GRAVITY	3.94
MELTING POINT	2000°C
HARDNESS MOH'S SCALE	9.0

APPLICATION

Silicon Carbide is used for cleaning extremely hard surfaces such as tungsten carbide or in cases where a deep cutting action is required to remove a thick layer of material such as stone cutting or carving.

PHYSICAL PROPERTIES

Density	: 3.2 g/cm ³
Hardness	: 9-10 MOH

SPECIFICATIONS

GRADE	MICRON SIZE
Mesh 8	2360
Mesh 10	2000
Mesh 12	1700
Mesh 14	1400
Mesh 16	1180
Mesh 20	850
Mesh 24	740
Mesh 30	600
Mesh 36	480
Mesh 40	425
Mesh 46	326
Mesh 60	250
Mesh 80	180
Mesh 90	166
Mesh 100	150
Mesh 120	125
Mesh 150	100
Mesh 180	83
Mesh 220	68
Other sizes are also available.	

THERE'S ONE THAT'S RIGHT FOR YOUR JOB

BLASTING SYSTEM



AIR CONSUMPTION (CFM) PER BLAST NOZZLE-using Garnet Abrasive										
NOZZLE SIZE		Minimum Air Line ID	NOZZLE PRESSURE							
NO.	SIZE		50 Psi	60 Psi	70 Psi	80 Psi	90 Psi	100 Psi	120 Psi	140 Psi
4	1/4"	1"	57	66	75	84	93	103	119	136
5	5/16"	1to1-1/4"	89	103	117	131	145	158	186	214
6	3/8"	1-1/4"	129	149	169	189	209	229	269	309
7	2/16"	1-1/2"	176	203	230	258	285	312	367	422
8	1/2"	1-1/2"	229	265	300	336	371	407	478	549
10	5/8"	2-1/2"	356	412	468	524	580	632	744	856
12	3/4"	3"	516	596	676	756	836	916	1076	1236
EFFICIENCY			47%	55%	64%	74%	86%	100%	130%	1650%

* Ensure equipment is rated for these pressures.

SPECIFICATIONS AND ACCESSORIES FOR PORTABLE ABRASIVE BLAST MACHINES			
MODEL	PBM-120	PBM-300	PBM-600
Machine diameter	0.305 m (12 ins)	0.406 m (16 ins)	0.610 m (24 ins)
Height	1.066 m (42 ins)	1.219 m (48 ins)	1.321 m (52 ins)
Machine Weight	50 kg (110 lbs)	159 kg (350 lbs)	200 kg (440 lbs)
Abrasive Capacity	54.5 kg (120 lbs)	136.4 kg (300 lbs)	272.7 kg (600 lbs)
Wheel Diameter	200 mm (7.8 ins)	360 mm (14 ins)	360 mm (14 ins)
Safe Working Pressure	1032 KN/SQM (150psi)	1032 KN/SQM (150psi)	1032 KN/SQM (150psi)
Threaded Coupling	1/2"	1-1/4"	1-1/4"
Moisture Separator	3/4"	1-1/2"	1-1/2"
Metering Valve	-B	1/2" Ball Valve	1-1/4" Ball Valve
	-S	1/2" Sand Valve	1-1/4" Sand Valve
	T	Thomson Valve	Thomson Valve
	M	Micro Valve	Micro Valve
	-G	N.V.	1-1/4" Grit Valve
Hose Coupling	Q 1/2	Q 2	Q 2
Nozzle Holder	HE 1/2	HE 2	HE 2
Blast Hose	1/2" I.D.x20 m	1-1/4" I.D.x40 m	1-1/4" I.D.x40 m
Blast Nozzle	NO.5 (Short)	NO.6 (Long)	NO.6 (Long)

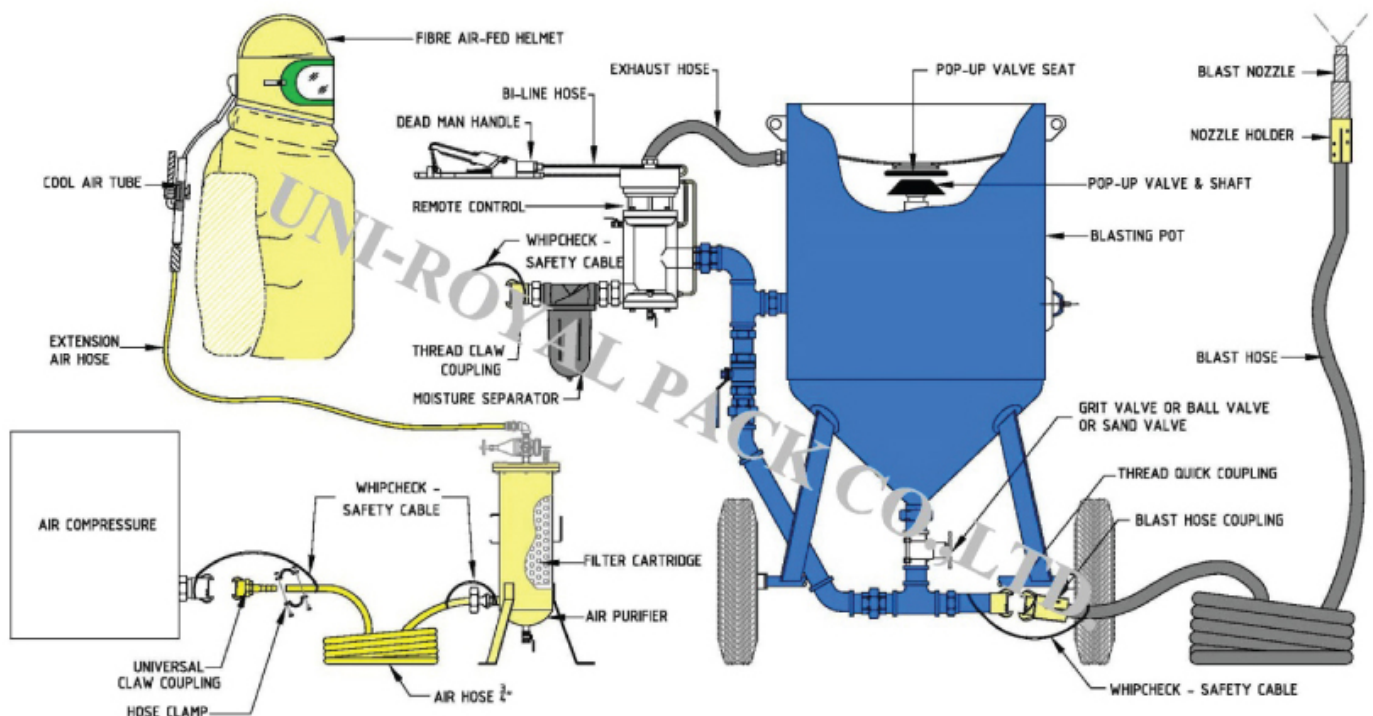
SAFETY ACCESSORIES			
Breathing Air-Filter	With Carrying Handle and One Outlet unless specified.		
Air-Fed-Helmet	Fibre Air Fed Helmet Bullard		
Breathing Air-Hose 20m	3/8" I.D. Rubber		
Air-Condition	Cool-Air Tube		
REMOTE CONTROL SYSTEM			
Pneumatic	TLR50	TLR300/ RCV-125	TLR300/ RCV-125
Pneumatic-Electric	N.A.	RDC-300	RDC-300

MATCHING NOZZLE SIZE AND COMPRESSOR SIZE FOR REQUIRED PRODUCTION RATE					
PRODUCTION RATE REQUIRED (sq ft/hr)	BLAST NOZZLE ORIFICE	PRODUCTION RATE at 100 psi NOZZLE PRESSURE	PRODUCTION RATE at 90 psi NOZZLE PRESSURE	PRODUCTION RATE at 80 psi NOZZLE PRESSURE	COMPRESSOR SIZE CFM at 100 psi NOZZLE PRESSURE
Up to 100	1/4"	100	85	70	185 cfm 40-50 h.p.
101 - 160	5/16"	160	136	112	250 cfm 60-75 h.p.
161 - 230	3/8"	230	195	161	375 cfm 75-100 h.p.
231 - 317	7/16"	317	270	222	450 cfm 125 h.p.
318 - 400	1/2"	400	340	280	600 cfm 150 h.p.

THIS CHART IS ESTIMATED AND BASED UPON USE OF A LONG VENTURI NOZZLE, SSPC-6 COMMERCIAL BLAST SPECIFICATION.

TECHNICAL DATA & BLASTING SYSTEM

BLASTING SYSTEM

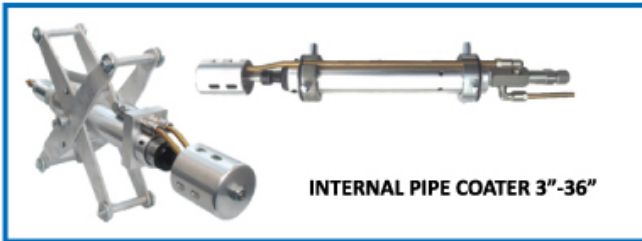




INTERNAL PIPE CLEANING 1-1/4"-36"



BLAST NOZZLE



INTERNAL PIPE COATER 3"-36"



AIR VAC



Abrasive valve

GRIT VALVE



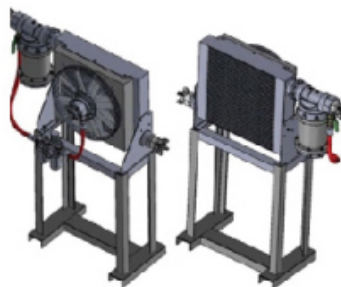
VACUUM BLASTING



VACUUM RECOVERY SYSTEM



DEHUMIDIFIERS



AFTER COOLER



COOLING VEST



COOL AIR TUBE



POWERED AIR PURIFYING RESPIRATORS & HOOD

AIR TREATMENT



AIRFIBER HELMET GEN VX & 88



AIR PURIFIER & CO MONITOR



BLAST SUIT

Equipment for applying a wide-range of industrial coating materials

High-pressure air-operated airless sprayers for protective coatings



XTREME SPRAYER SPECIFICATIONS

	X45	X50	X60	X70	X90
Output per cycle	290cc	250cc	220cc	180cc	145cc
Motor Size	NXT 6500	NXT 6500	NXT 6500	NXT 6500	NXT 6500
Maximum Working Pressure psi (bar, MPa)	4550 (313, 31.3)	5200 (359, 35.9)	6000 (417, 41.7)	7250 (500, 50.0)	7250 (500, 50.0)
Maximum Air Input Pressure psi (bar, MPa)	100 (7, 0.7)	100 (7, 0.7)	100 (7, 0.7)	100 (7, 0.7)	80 (5.5, 5.5)
Maximum Free Flow Output gpm (lpm)	13.8 (52.2)	11.3 (43)	10.0 (38)	8.5 (32)	7.5 (28)
Output at 60 CPM gpm (lpm)	4.6(17)	4.0(15.2)	3.4(12.9)	2.9(11.1)	2.3(8.7)



Merkur Sprayer



Xtreme Sprayers



Silver Plus Gun



XTR Gun

Two-component spraying made easy and affordable. Optimized for quick-setting coatings



XP Quick-Set Packages



XM Plural-Component Sprayers



High solids, Quick set plural-component coatings

Airless and direct drive airless models available for striping roads, parking lots of all sizes, paths, and more.



Line Strippers



Cordless airless sprayer is ideal for small jobs spraying protective coatings



Engine Airless Sprayers



Electric Airless Sprayers



**A better way to spray heavy, gritty materials.
Portable sprayer for mortar, cementitious and heavy filled materials.**



Portable texture sprayer, mortar pumps and mixers to meet the ever-changing needs of the professional texturing industry.

Industrial Finishing (Liquid Finishing) Equipment

Industrial fine finishing equipment used in automotive manufacturing, heavy equipment and wood.



Electrostatic Spray Guns



Electronic plural component proportioner and accessories



Decorative finish to wood and metal parts



Precision Continuous Flow Metering and Dispense



Agitator



Fluid regulator



Triton pump



Fluid heater



Air-Assisted
Spray Guns

Rotary Bell Applicators

Complete your system with quality Graco accessories

Transfer and metering equipment used in general industry

Ink, food, beverage, personal care, pharmaceutical, water treatment, chemical and cleaning applications. Products include air and electric operated diaphragm pumps, sanitary unloading systems, drum pumps.



Piston pumps



Diaphragm pumps