

MEDIA GUIDE

	Glass Bead	Ceramic Shot	Stainless Cut Wire	Steel Shot	Steel Grit	Aluminum Oxide	Silicon Carbide	Garnet	Crushed Glass	Plastic Media	Agri Shell
Finishing	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Cleaning/Removal	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Peening	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO
Surface Profiling (Etch)	NO	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES
Working Speed	MED	MED	MED	MED	MED-HIGH	HIGH	VERY-HIGH	HIGH	HIGH	MED-HIGH	LOW-HIGH
Recyclability	HIGH-LOW	HIGH	HIGH	VERY-HIGH	VERY-HIGH	MED-HIGH	MED-LOW	MED	MED-LOW	MED	LOW
Probability of Metal Removal	VERY LOW	VERY LOW	VERY LOW	VERY LOW	MED	MED-HIGH	MED-HIGH	MED	LOW-MED	VERY LOW	VERY LOW
Hardness, MOH Scale (Rockwell RC)	5.5	7 (57-63)	6-7.5 (35-55)	6-7.5 (20-66)	8-9 (40-66)	8-9	9	8	5.5	3-4	1-4.5
Bulk Density (lb/cu. ft.)	100	150	280	280	230	125	95	130	100	45-60	40-80
Mesh Size	30-440	8-46	20-62	8-200	10-325	12-325	36-220	16-325	30-400	12-80	MANY
Typical Blast Pressures (psi)	20-55	20-90	20-90	20-90	20-90	20-90	20-90	30-80	20-50	20-60	10-40
Shapes: ▲ Angular; ● Spherical	●	●	●	●	▲	▲	▲	▲	▲	▲ or ●	▲

- Above information is intended as a general reference guide. Consult your authorized Empire distributor for specific media specifications.
- Sodium bicarbonate must be treated with a flow agent.

WARNINGS

1. **SILICA SAND IS NOT TO BE USED IN ANY EMPIRE BLAST EQUIPMENT**
2. Before installing and operating any type of blast or safety equipment read all manufacturers' installation and operating manuals carefully.
3. Always use "safety pins" when joining blast-hose and air-hose couplings.
4. OSHA requires the use of operator safety equipment for all blasting operators. (Refer to Empire "Parts Book" for details.)
5. All operator's breathing apparatus **must** be supplied with clean, breathable Grade "D" quality or better air as defined by the Compressed Gas Association Commodity Specification G-7.1, 1996.
6. There are three safe ways to provide correct air quality to the operator:
 - a. An ambient air-breathing pump with a hood respirator
 - b. A self-contained air-respirator system
 - c. An air compressor equipped with a high-temperature alarm, carbon-monoxide filter, and a carbon-monoxide alarm
7. The following precautions **must always** be taken when the operator is not separated from the abrasive air-blast process:
 - a. When using an air-supplied respirator, it must be attached to a "good" air source as outlined in items "5" and "6."
 - b. When supplying the respirator with an air compressor, a personal air filter must be installed between the compressor and respirator to remove oil and moisture. However, the air-filter **does not remove carbon monoxide (CO)**. The compressor **must always** be equipped with a high-temperature alarm, carbon-monoxide filter and carbon-monoxide alarm. Remember, carbon monoxide is an odorless, tasteless gas that kills without warning. Consequently, the monitoring and filtration equipment described above must be inspected and serviced regularly to assure safe operation.

SILICA SAND IS NOT TO BE USED IN ANY EMPIRE BLAST EQUIPMENT

WARRANTY: THREE YEAR LIMITED
 Consult Empire for details. For other literature or more information, consult your local Empire distributor, your Empire regional sales manager, or Empire company headquarters.

EMPIRE PRODUCTS

- Outdoor portable systems
- Pneumatic blast & recovery systems
- FaStrip® plastic & wheat-starch decoating systems
- Blast rooms
- A full range of cabinets—economy to custom
- Basket blasters for batch processing
- Automated blast systems
- Centrifugal-disc deburring machines



EMPIRE
ABRASIVE EQUIPMENT
 2101 West Cabot Boulevard, Langhorne, PA 19047-1893
 Call: (215) 752-8800 E-Mail: Airblast@empire-airblast.com
 Fax: (215) 752-9373 Visit: www.empire-airblast.com