ARMEX® Blast Media
Electronics P
Product Code 69142 and 20015532

ARMEX® Blast Media Electronics Formula P is specially formulated for use with use with specially engineered soda blasting equipment. The media is based on sodium bicarbonate (baking soda) which is a natural, water soluble, and inorganic compound with a soft crystalline structure that makes it an ideal, cleaning agent. Electronics P Formula is specifically designed to remove coatings and residues from sensitive, specialty substrates, electronic components and for use in micro-blasting equipment.

Key Features and Benefits

- Optimized crystal size allows coating removal without damage to sensitive, specialty substrates.
- Water soluble - eliminates media residue concerns; simplifies clean-up & disposal; less solid waste generated.
- Safe to use on virtually any substrate, including delicate surfaces, rotating equipment & moving parts.
- Nontoxic & nonhazardous as defined by EPA & OSHA.
- Contains no free silica, and is nonflammable resulting in significant worker safety advantages
- Contains no solvents or caustic chemicals - reduced air pollution.

Information on Ingredients

- The media contains sodium bicarbonate that meets USP (United States Pharmacopoeia) standards and typically has less than 25 ppm of chloride ions & less than 50 ppm sulfate ions.

- The media does **NOT** contain a flow aid but is packaged with a desiccant to preserve flowability.

Particle Size

The media has an optimized particle size distribution as follows:

- Retained on 100 mesh sieve (149 microns): 0.2% max.
- Retained on 140 mesh sieve (106 microns): 7% max.
- Retained on 200 mesh sieve (75 microns): 52% max.
- Retained on 325 mesh sieve (45 microns): 80% min.
- Retained on 400 mesh sieve (38 microns): 95% min.

Flow Characteristics

Flow characteristics of the media were determined using a Hosokawa Powder Tester and results are summarized in the table below. Any media that has a total flowability index of more than 80 is considered to have very good flow properties.

Type of Test (Max. Score)	Flowability Index (Typical Values)
Angle of Repose (25)	18
Compressibility (25)	23
Angle of Spatula (25)	21-22
Uniformity (25)	23-24
Total (100)	85-87

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Corrosion Data

Aluminum and carbon steel coupons were immersion tested in saturated solutions at 120 F for 14 days. Corrosion rates of the media were found to be significantly lower than those of distilled water.

	Immersion Corrosion Rate (mils/yr.)		
Product	AL-7075	AL-5050	CS-1020
Distilled Water	1.15	1.11	9.0
ARMEX® Blast Media	0.25	0.20	0.17

Typical Operating Conditions

The media is specially formulated for use with specially engineered soda blasting equipment. Typical operating conditions are summarized as follows:

Air Pressure:	10-100 psi
Air Volume:	12-350 cfm
Media Flow Rate:	0.25-2.00 lbs/min.
Water Flow Rate:	0.0 - 0.25 gal/min.

The **Air Pressure** used is the blasting pressure. On delicate substrates, such as composites, lower pressures will be more usual (pressures 50psi and lower). This will be dependent on how delicate the substrate is and what is being removed.

The **Air Volume** is the amount of air required to maintain the blasting pressure. This is dependent on the size of the nozzle. The larger the nozzle and the higher the pressure, the more air volume is required to sustain that blasting air pressure.

Media Flow Rate is the rate that the ARMEX® Blast Media is consumed during blasting operations. Depending on the substrate, 0.25 lbs up to 2.00 per minute will be used.

Water Flow Rate is the amount of water used during blasting. The use of water is optional depending on the application.

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Packaging

The media is packaged in 37.5-lb (17.0 kg) corrugated box with a sealed Mylar™ bag and desiccant pack.

Safety

ARMEX® Blast Media has an excellent health and safety profile. It presents minimal risk to workers from either short term acute exposure or long term (chronic or subchronic) exposure. Please refer to MSDS for details.

Testing and Approval

- Suitable for use in FDA-regulated facilities
- ISO 9002 certified

General Properties

Appearance.....White crystalline powder

Bulk Density..... 63 lbs/ft^2 (1.007 g/cc)

Taste.....Slightly alkaline

Specific Gravity.....2.2 g/cc

Solubility in Water.....See Figure 1

Solubility in Alcohol.....Insoluble

pH (8% solution)..... 8.2

Mohs Hardness.....2.5

For additional information, please call 1-800-332-5424.