

eStrip® GPX 16/40

(starch-g-acrylic)

Type VII Mil Spec Media

(Code 1698)

GENERAL DESCRIPTION

eStrip® GPX 16/40 dry stripping media is a starch graft acrylic copolymer. **GPX 16/40** is classed as a Type VII starch-g-acrylic media that meets the USAF military specification **MIL-P-85891A** requirements. Careful processing and stringent quality control procedures guarantee a high purity uniform product. As a **non-residue media**, remaining dust/residue can be removed with water – no chemicals or chemical wipes are required to obtain a clean surface.

eStrip® GPX 16/40 is used for many applications including stripping of **metal and composite** surfaces. The **GPX moisture resistance** and **good flowability** allow it to be used with most types of light abrasive blasting equipment. **GPX** offers several advantages including longer product life, improved consumption rates and UV fluorescence to assist post-stripping inspection.

PHYSICAL & CHEMICAL SPECIFICATIONS

<i>Appearance</i>	<i>Pale yellow or off white colored media sized 0.40 mm to 1.2 mm (16 to 40 mesh U.S. std)</i>
<i>Density (g/cm³)</i>	<i>1.38 à 1.43</i>
<i>Bulk Density (kg/m³)</i>	<i>641 – 769 (40 – 48 lb/ft³)</i>
<i>Mesh (US Std), max.</i>	<i>30% on 16 mesh</i>
<i>max.</i>	<i>16% through 50 mesh</i>
<i>Hardness</i>	<i>70 - 90 shore, D scale</i>

PACKAGING

eStrip® GPX 16/40 starch graft acrylic copolymer is available in 90-kg (198.4-lb) polyethylene-lined fiberboard drums, 500-kg (1102-lb) polyethylene-lined corrugated boxes and 1000-kg (2200 lb) totes.

APPLICATION DEVELOPMENT

eStrip® GPX 16/40 may be the ideal stripping process for your operation. Request a sample for process or laboratory evaluation.

ADM's Test Center and technical support team are available to tailor the **eStrip® GPX 16/40** starch graft acrylic copolymer's performance to your specific needs.

APPLICATION

eStrip® GPX 16/40 was specifically engineered as a paint-removal abrasive media for delicate aircraft surfaces. For the removal of most of the polyurethane topcoat and epoxy primer paint schemes from metal or composite surfaces, the **eStrip® GPX 16/40** operating window is summarized in the following tables.

(U.S. Standard Measurements)

ALUMINUM ALLOYS (≥ 0.032 -inch thick)¹

	(3/8-inch nozzle)	(1/2-inch nozzle)
Nozzle Pressure (psi)	25 – 40	25 – 40
Media Flow Rate (lb/min)	5 – 8	10 – 16
Stand-off Distance (inches)	3 – 10	4 – 14
Impingement Angle (degrees) ²	40 – 60	40 – 60
Paint Removal Rate (ft ² /min) ³	0.2 – 0.6	0.4 – 1.2

(Metric Units)

	(9.5 mm nozzle)	(12.7 mm nozzle)
Nozzle Pressure (bar)	1.7 – 2.7	1.7 – 2.7
Media Flow Rate (kg/min)	2.3 – 3.6	4.5 – 7.3
Stand-off Distance (cm)	8 – 25	10 – 35
Impingement Angle (degrees) ²	40 – 60	40 – 60
Paint Removal Rate (m ² /hr) ³	1.1 – 3.3	2.2 – 6.7

1. For aluminum alloys 0.63 mm (0.025-inch) and thinner, 1.4 – 1.7 bar (20 – 25 psi) nozzle pressure and 7.3 – 8.2 kg/min (16-18 lb/min) media flow rates are recommended.
2. The optimum angle for removing most polyurethane/epoxy primer coatings is 45° while blast angles greater than 70° are less efficient.
3. Paint removal rates are dependent on the condition of the coating and operator skill.

(U.S. Standard Measurements)

COMPOSITES

	(3/8-inch nozzle)	(1/2-inch nozzle)
Nozzle Pressure (psi)	20 - 30	20 - 30
Media Flow Rate (lb/min)	5 - 8	10 - 16
Stand-off Distance (inches)	3 - 14	4 - 22
Impingement Angle (degrees) ¹	20 - 40	20 - 40
Paint Removal Rate (ft ² /min) ²	0.2 - 0.4	0.3 - 0.8

(Metric Units)

	(9.5 mm nozzle)	(12.7 mm nozzle)
Nozzle Pressure (bar)	1.4 – 2.0	1.4 – 2.0
Media Flow Rate (kg/min)	2.3 – 3.6	4.5 – 7.3
Stand-off Distance (cm)	8 – 35	10 – 55
Impingement Angle (degrees) ¹	20 – 40	20 – 40
Paint Removal Rate (m ² /hr) ²	1.1 – 2.2	1.7 – 4.5

1. A lower angle (20 – 40°) is preferred for stripping composites in order to minimize substrate effects.
2. Paint removal rates are dependent on the condition of the coating and operator skill.



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