

# ENVIROStrip® 12/30

(wheat starch media)

**AVIATION GRADE** (Code 1600)

## GENERAL DESCRIPTION

ENVIROStrip® wheat starch media is a 100% natural dry stripping media that is non-toxic and biodegradable. Careful processing and stringent quality control procedures guarantee a uniform product of high purity.

ENVIROStrip® wheat starch media is available in several product mesh sizes. The 12/30 grade is used primarily for stripping metal surfaces such as aluminium alloys, titanium, magnesium, and plated steels.

## PHYSICAL & CHEMICAL SPECIFICATIONS

<i>Appearance</i>	Clear, white media sized 0.6 mm to 1.7 mm
<i>Density (g/cm<sup>3</sup>)</i>	1.45 ± 0.10
<i>Bulk Density (kg/m<sup>3</sup>)</i>	641 – 769 (40 – 48 lb/ft <sup>3</sup> )
<i>Mesh (US Std), max.</i>	5% on 12 mesh
<i>min.</i>	60% on 20 mesh
<i>max</i>	5% through 30 mesh
<i>Hardness</i>	80 ± 10 shore, D scale

## PACKAGING

ENVIROStrip® 12/30 wheat starch media is available in 90-kg (198.4-lb) polyethylene-lined fiberboard drums and 500-kg (1102-lb) polyethylene-lined corrugated boxes.

## APPLICATION DEVELOPMENT

ENVIROStrip® 12/30 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 ENVIROStrip® wheat starch media's performance to your specific needs.

## APPLICATION

ENVIROStrip® 12/30 was specifically engineered as a paint-removal abrasive media for delicate aircraft surfaces. For removal of most polyurethane topcoat and epoxy primer paint schemes from aluminum alloys 0.81 mm (0.032 inch) or greater in thickness, the ENVIROStrip® operating window is:

(U.S. Standard Measurements)

## ALUMINUM ALLOYS ( $\geq 0.032$ -inch thick)<sup>1</sup>

	(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 – 8	4 – 12
Impingement Angle (degrees) <sup>2</sup>	40 – 60	40 – 60
Paint Removal Rate (ft <sup>2</sup> /min) <sup>3</sup>	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 – 19	10 – 30
Impingement Angle (degrees) <sup>2</sup>	40 – 60	40 – 60
Paint Removal Rate (m <sup>2</sup> /hr) <sup>3</sup>	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.



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