

## Chesterton ARC 897 Fine Grade Sliding Wear Compound

Category : Ceramic , Polymer , Thermoset , Epoxy

### Material Notes:

**Description:** ARC 897 is an advanced ceramic reinforced composite for the repair and protection of all metal surfaces subjected to severe erosion, corrosion, and chemical attack. It is applied at a thickness of 3 mm (1/8") or more. Non-shrinking. 100% Solids. ARC 897 is formulated with a high concentration of small ceramic beads and particles for extremely abrasive environments where metal loss is often repaired by more conventional and costly weld overlay. ARC 897 can be used either to rebuild eroded metal surfaces or to provide a wear resistant, sacrificial surface which frequently outperforms the original metal, rubber liners, ceramic tiles or weld overlay. ARC 897 is a long lasting wearing surface and is chosen over ARC 890 where a thinner, more easily applied composite is required. **Benefits:** Excellent wear characteristics of ARC 897 extends equipment operating cycles. Tough resin structures resists thermal-mechanical shock Outstanding adhesion results in reliable performance with no undercutting Ease of application reduces labor and downtime costs It can be easily shaped and formed to any metal surface. **Suggested Uses:** Pneumatic Conveyors Chipper and Chip Bins Hydro Pulpers Turbo Separators Ni-Hard Slurry Pumps Fly Ash Separators Wood Chip Transport Fans Screws Conveyors Exhaust Fans Cyclones, Hoppers Wear Plates Pipe Elbows Pulverized Fuel Lines Pulverizers Information provided by Chesterton

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chesterton-ARC-897-Fine-Grade-Sliding-Wear-Compound.php](http://www.lookpolymers.com/polymer_Chesterton-ARC-897-Fine-Grade-Sliding-Wear-Compound.php)

Physical Properties	Metric	English	Comments
Density	2.20 g/cc	0.0795 lb/in <sup>3</sup>	Cured

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Hardness, Shore D	90	90	ASTM D2240
Tensile Strength at Break	33.1 MPa	4800 psi	ASTM D638
Flexural Strength	67.6 MPa	9800 psi	ASTM D790
Compressive Strength	93.1 MPa	13500 psi	ASTM D695
Impact Test	5.99 J	4.42 ft-lb	Reverse; ASTM D2794

Thermal Properties	Metric	English	Comments
CTE, linear	39.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	22.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM C531
Maximum Service Temperature, Air	95.0 $\text{°C}$	203 $\text{°F}$	Wet Service
	205 $\text{°C}$	401 $\text{°F}$	Dry Service

Processing Properties	Metric	English	Comments
	19.8 min	0.330 hour	

<b>Cure Time</b> Processing Properties	<b>Metric</b> @Temperature 43.0 °C	<b>English</b> @Temperature 109 °F	<b>Tack Free</b> Comments
	<b>90.0 min</b> @Temperature 43.0 °C	<b>1.50 hour</b> @Temperature 109 °F	<b>Light Load</b>
	<b>120 min</b> @Temperature 32.0 °C	<b>2.00 hour</b> @Temperature 89.6 °F	<b>Tack Free</b>
	<b>240 min</b> @Temperature 25.0 °C	<b>4.00 hour</b> @Temperature 77.0 °F	<b>Tack Free</b>
	<b>360 min</b> @Temperature 32.0 °C	<b>6.00 hour</b> @Temperature 89.6 °F	<b>Light Load</b>
	<b>420 min</b> @Temperature 16.0 °C	<b>7.00 hour</b> @Temperature 60.8 °F	<b>Tack Free</b>
	<b>480 min</b> @Temperature 25.0 °C	<b>8.00 hour</b> @Temperature 77.0 °F	<b>Light Load</b>
	<b>720 min</b> @Temperature 43.0 °C	<b>12.0 hour</b> @Temperature 109 °F	<b>Full Load</b>
	<b>960 min</b> @Temperature 10.0 °C	<b>16.0 hour</b> @Temperature 50.0 °F	<b>Tack Free</b>
	<b>1200 min</b> @Temperature 32.0 °C	<b>20.0 hour</b> @Temperature 89.6 °F	<b>Full Load</b>
	<b>1440 min</b> @Temperature 16.0 °C	<b>24.0 hour</b> @Temperature 60.8 °F	<b>Light Load</b>
	<b>1440 min</b> @Temperature 43.0 °C	<b>24.0 hour</b> @Temperature 109 °F	<b>Full Chemical</b>
	<b>1800 min</b> @Temperature 32.0 °C	<b>30.0 hour</b> @Temperature 89.6 °F	<b>Full Chemical</b>
	<b>2160 min</b> @Temperature 10.0 °C	<b>36.0 hour</b> @Temperature 50.0 °F	<b>Light Load</b>
	<b>2160 min</b> @Temperature 25.0 °C	<b>36.0 hour</b> @Temperature 77.0 °F	<b>Full Load</b>
	<b>2880 min</b> @Temperature 16.0 °C	<b>48.0 hour</b> @Temperature 60.8 °F	<b>Full Load</b>

Processing Properties	Metric	English	Comments
	2880 min	48.0 hour	Full Chemical
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	4320 min	72.0 hour	Full Load
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	4320 min	72.0 hour	Full Chemical
	@Temperature 16.0 °C	@Temperature 60.8 °F	
	5760 min	96.0 hour	Full Chemical
	@Temperature 10.0 °C	@Temperature 50.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	

## Contact Songhan Plastic Technology Co.,Ltd.

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