COMPANY

Flash Surface Technologies (FST) has been dedicated to providing the surface finishing industry with reliable, quality, and properties tunable polishing materials. The product applications cover glass, LCD/LED substrates, precision optics, metal and semiconductor wafer surfaces.

Starting with manufacturing basic and specialty chemicals in 2003, the company is expanding its business from polishing materials to surface finishing pads. During the past 10 years, company have cultivated relationships with university researchers, industry experts in polishing field, and end-user consultants to develop over eight advanced polishing materials to their product line to meet the increased demand for glass, metal, and semiconductor surface finishing.

Flash Surface Technologies is integrally involved in the research and development of new tunable polishing pads and polishing materials with newly built manufacturing facilities, state-of-art equipment, and strict quality control system. The expert technical support and customer service representatives are dedicated to helping clients. We also have a worldwide network of distributors focusing on maintaining inventory, and providing technical support and critical multinational account coordination. Together, our company can be committed to helping the customers develop customized products for today and tomorrow.
The company provides eight Cast Polyurethane (PU) Polishing Pads. Abrasive fillers include ceria and zirconia, some pads do not have abrasive filler. Those polishing pads can be used in the polishing and finishing of glass, LCD/LED substrates, precision optics, hard disk, metal and semiconductor wafer surfaces.
FST-110:

Filler: Cerium Oxide; Average Density: 0.42 g/cm³ (26 lb/ft³); Average Hardness: 78 Shore A;

This pad type applies to glasses, crystals, metals, and ceramics.
FST-120:

Filler: Cerium Oxide; Average Density: 0.43 g/cm³ (27 lb/ft³); Average Hardness: 78 Shore A;

This pad type applies to glasses and crystals.
FST-130:

Filler: Cerium Oxide; Average Density: 0.35 g/cm³ (22 lb/ft³); Average Hardness: 66 Shore A; This pad type applys to glasses and crystals.
FST-210:

Filler: Zirconium Oxide; Average Density: 0.59 g/cm$^3$ (37 lb/ft$^3$); Average Hardness: 90 Shore A; This pad type applies to glasses, metals, and ceramics etc.
FST-230:

Filler: Zirconium Oxide; Average Density: 0.40 g/cm$^3$ (25 lb/ft$^3$); Average Hardness: 74 Shore A; This pad type applies to glasses, crystals, etc.
FST-240:

Filler: Zirconium Oxide; Average Density: 0.57 g/cm³ (25 lb/ft³); Average Hardness: 87 Shore A; This pad type applies to crystals, etc.
FST-410:

Filler: None; Average Density: 0.51 g/cm$^3$ (32 lb/ft$^3$); Average Hardness: 88 Shore A; This pad type applies to glasses, crystals, metals, ceramics, etc.
FST-420:

Filler: Zirconium Oxide; None: 0.77 g/cm³ (49 lb/ft³); Average Hardness: 96 Shore A; This pad type applys to glasses, metals, semiconductors and ceramics, etc.
**Product Summary:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Filler</th>
<th>Average Density g/cm³ (lb/ft³)</th>
<th>Average Hardness (Shore A)</th>
<th>Application Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>FST-110</td>
<td>Cerium Oxide</td>
<td>0.42 (26)</td>
<td>78</td>
<td>Glass, Crystal, Metal, Ceramic</td>
</tr>
<tr>
<td>FST-120</td>
<td>Cerium Oxide</td>
<td>0.43 (27)</td>
<td>78</td>
<td>Glass, Crystal</td>
</tr>
<tr>
<td>FST-130</td>
<td>Cerium Oxide</td>
<td>0.35 (22)</td>
<td>66</td>
<td>Glass, Crystal</td>
</tr>
<tr>
<td>FST-210</td>
<td>Zirconium Oxide</td>
<td>0.59 (37)</td>
<td>90</td>
<td>Glass, Metal, Ceramic</td>
</tr>
<tr>
<td>FST-230</td>
<td>Zirconium Oxide</td>
<td>0.40 (25)</td>
<td>74</td>
<td>Glass, Crystal</td>
</tr>
<tr>
<td>FST-240</td>
<td>Zirconium Oxide</td>
<td>0.57 (36)</td>
<td>88</td>
<td>Glass, Crystal</td>
</tr>
<tr>
<td>FST-410</td>
<td>None</td>
<td>0.51 (32)</td>
<td>88</td>
<td>Glass, Crystal, Metal, Ceramic</td>
</tr>
<tr>
<td>FST-420</td>
<td>None</td>
<td>0.77 (49)</td>
<td>96</td>
<td>Glass, Crystal, Metal, Ceramic</td>
</tr>
</tbody>
</table>

**Size:** FST PU Polishing Pads are available in full sheets or cut to size. Standard dimensions include 23 x 55 inches (584.2 x 1397mm), 36x71 inches (914x1803mm), 42x42 inches (1066x1066mm), 52x52 inches (1320x1320mm), Φ26 inches (660mm), Φ32 inches (812mm), Φ38 inches (965mm), Φ52 inches (1320mm). Custom sizes, shapes and configurations are available.

**Thickness:** Standard thickness for FST PU Polishing Pads ranges from 0.020 inch (0.508mm) to 0.20 inch (5.08mm).

**Pressure-Sensitive Adhesives (PSA) Backing:** Adhesive backing is available on all types of FST pads. PSA backing ranges from high-holding to low tack / easy release.

**Grooving:** Grooves improve pad performance by reducing excess slurry from the pad surfaces. Our pad is offered in a variety of groove configurations. The depth of a groove is usually half of the pad thickness, only pad with thickness of more than 2 mm can be grooved. Groove
width is usually 2mm, and the island size is usually 16 x 16 mm. Custom sizes, shapes and configurations are available.

CONTACTS

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