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**Characteristics:**

- Brushes minimize static charge generation and remove electrostatic charges to ground when held by grounded personnel
- Dissipative polypropylene black handles remove charges when grounded
- Available in two kinds of bristles - semi fine, firm
- Semi-fine bristles are ideal for chemical and electronics applications
- Firm bristles are mainly for electronics, especially circuit boards
- Conductive handle's ESD properties are not effected by humidity as are wooden handle brushes
- Conductive copper based nylon bristles with hog hair and two other natural fibers.
- Volume Resistance of conductive fibers:  
1 x 10<sup>3</sup> to < 1 x 10<sup>5</sup> ohms per ANSI/ESD STM11.12
- Volume Resistance of dissipative handle:  
1 x 10<sup>4</sup> to < 1 x 10<sup>11</sup> ohms per ANSI/ESD STM11.12

**Materials:**

- Firm bristles - conductive yarn and pig hair
- Semi-fine bristles - conductive yarn and horse hair

Item	Style	Bristle Hardness	Bristle Dimensions
<a href="#">35690</a>	Round	Firm	1/4" L (6 mm) x 13/20" H (17 mm)
<a href="#">35691</a>	Long Handle	Firm	1" L (25 mm) x 51/64" H (20 mm) x 19/32" W (15 mm)
<a href="#">35692</a>	Long Handle	Firm	2" L (50 mm) x 51/64" H (20 mm) x 19/32" W (15 mm)
<a href="#">35693</a>	Flat	Firm	2" L (50 mm) x 1" H (6 mm) x 5/9" W (14 mm)
<a href="#">35694</a>	Flat	Semi-Fine	1/2" L (13 mm) x 3/4" H (19 mm) x 2/5" W (10 mm)
<a href="#">35695</a>	Curved Handle	Firm	3" L (76 mm) x 3/4" H (19 mm) x 1 1/2" W (38 mm)
<a href="#">35696</a>	Flat	Firm	1/2" L (13 mm) x 3/5" H (15 mm) x 1/2" W (13 mm)
<a href="#">36086</a>	Flat	Firm	3/4" L (19 mm) x 3/4" H (19 mm) x 4/5" W (20 mm)
<a href="#">36087</a>	Flat	Firm	3/4" L (19 mm) x 3/4" H (19 mm) x 1" W (6 mm)
<a href="#">36088</a>	Flat	Firm	1-1/2" L (38 mm) x 1-1/2" H (38 mm) x 1-1/2" W (38 mm)

Dimensions are taken from the bottom of the brush to the top of the bristles.

**Synthetic vs. Natural Bristles**

Synthetic bristles can easily become charged with static in standard humidity conditions. Natural hair usually builds static in areas of low humidity, but due to the conductive fibers in our brushes, this problem does not take effect. Generally speaking, once the conductive yarn is added to the bristles, it neutralizes the possibility of static build up caused by the natural hair.

ESD Handbook TR20.20 Table 1 lists under Typical Static Electricity Sources "Brushes (camel/pig hair and synthetic bristles)." "It should be understood that any object, item, material or person could be a source of static electricity in the work environment. Removal of unnecessary nonconductors, replacing nonconductive materials with dissipative or conductive materials and grounding all conductors are the principle methods of controlling static electricity in the workplace, regardless of the activity." (TR 20.20 section 2.4)

Unless otherwise noted, tolerance is ±10%.

Specifications and procedures subject to change without notice.

Made in Israel

**CONDUCTIVE BRUSHES**

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**DRAWING NUMBER**  
35690

**DATE:**  
January 2018

**MENDA**