

INCH-POUND

A-A-2516A
May 16, 2002
SUPERSEDING
A-A-2516
April 1, 1987

COMMERCIAL ITEM DESCRIPTION

BRUSHES, WIRE, ROTARY, WHEEL, CRIMPED WIRE

The General Services Administration has authorized the use of this Commercial Item Description by all federal agencies.

1. SCOPE. This Commercial Item Description covers brushes for use with pneumatic or electric power tools in the light duty removal of rust, scale, paint, or burrs from all types of metal surfaces.

2. CLASSIFICATION. Unless otherwise specified brushes shall conform to the following types and classes.

2.1 Type I. Narrow face width.

Class 1. Brass.

Class 2. Stainless steel.

Class 3. High-carbon tempered steel.

2.2 Type II. Wide face width.

Class 1. Brass.

Class 2. Stainless steel.

Class 3. High-carbon tempered steel.



Type 1.



Type 2.



Type 2 adaptors.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data that may improve this document should be sent to: General Services Administration, Federal Supply Service, Hardware SuperStore, 6FEE, 1500 Bannister Rd., Bldg.# 6, Kansas City, Missouri 64131.

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3. SALIENT CHARACTERISTICS.

3.1 Design. Wheel shaped design for use with portable or stationary power tools.

3.1.1 Type 1. Brushes shall have a narrow face width to be used individually or in multiple configurations on a common arbor. The brush shall possess an unthreaded through hole of specified size. To minimize vibration the arbor-hole shall be centered to insure the brush runs true.

3.1.2 Type 2. Brushes shall have a wide face width to be used individually on an arbor. The brushes 4 inches and below in diameter shall be one piece with an arbor hole as specified. The brushes 4 inches in diameter and above shall possess an unthreaded through hole 2 inches in diameter. To adapt the 2-inch hole to desired arbor size there shall be two adaptor plates of specified size supplied. To minimize vibration the arbor and arbor adaptor hole shall be centered to insure the brush runs true.

3.1.3 Body. The body shall be of steel overall and constructed in such a manner as to insure an even distribution of the wire throughout the brush to provide a balanced unit for minimal vibration at max rated free speed R.P.M. Provisions shall be made for securely holding the fill wire in place and to prevent the wire from detaching due to flex during use or at rated free speed RPM. Where welded construction is used, the wire shall not be burned, broken, or affected in any way by the welding process.

3.1.4 Wire. As specified, the crimped wire shall be of brass, stainless steel or high carbon tempered steel. The wire shall be comprised of at least four, single-amplitude, three; dimensional-crimps per inch of specified diameter and wire-points (density).

3.2 Identification marking. The tool shall be marked with the Maximum Safe Free Speed, (RPM or MSFS), the words "Wear Eye Protection", the manufacturer's name or identifying symbol and the state or country of manufacture, unless otherwise specified. All identification markings shall be etched, engraved, molded, or indented directly on the item's surface in such a manner that it remains clearly legible throughout the life of the item.

3.3 Workmanship. Details of workmanship shall be in accordance with the best commercial practices. The brushes shall be well constructed with a balanced distribution of wire fill. Paints, coatings, plating, and finishes shall be smooth, adherent, continuous and not stained or discolored. External surfaces shall be free of tool and gouge marks, nicks, or other surface imperfections. The item shall be free from manufacturing workmanship defects (e.g. sharp or rough external edges, corners, or surfaces) and material workmanship defects (e.g. pits, rips, fins, burrs, tears, nodules, cracks, or blisters), which may adversely impact the item's serviceability, durability, safety, or appearance.

4. REGULATORY REQUIREMENTS.

4.1 Recovered materials. The supplier/manufacturer is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4.2 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within the tolerances specified (using conversion tables contained in the latest revision of Federal Standard 376) and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch- pound units, a request should be made to the contracting officer to determine if the product is acceptable.

5. PRODUCT CONFORMANCE.

5.1 Safety. The brushes shall comply with American National Standards Institute (ANSI) standard B165.1-1991, Safety Requirements for the design, Care and Use of Power Driven Brushing Tools.

5.2 Product Conformance. The products provided shall meet the salient characteristics of this Commercial Item Description, conform to the supplier's own drawings, specifications, standards and quality assurance practices, and the same product and offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.3 Responsibility for inspection. Unless otherwise specified, the supplier is responsible for the performance of all inspection requirements and may use any commercial facilities (including the supplier's own facilities) suitable for performance of the inspection requirements, unless disapproved by the Government. The Government reserves the right to perform any inspections deemed necessary to assure the item conforms to the specified requirements.

6. PACKAGING. Requirements of preservation, packing, packaging, and marking of packages shall be as specified in the contract or order.

7. NOTES. (This section contains information of a general or explanatory nature that is not mandatory.)

7.1 Addresses for obtaining copies of referenced documents:

Federal Acquisition Regulation (FAR): Government Printing Office, Superintendent of Documents, Washington, DC 20401-9371

GSA Specification Section (3FP-E), Suite 8100, 470 L'Enfant Plaza, SW, Washington, DC, 20407.

American National Standards Institute (ANSI), Washington, DC Headquarters, 1819 L Street, NW, 6th Fl., Washington, DC, 20036

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7.2 National Stock Numbers (NSNs). The following NSN list corresponds to the types and classes specified in this CID. This list may not be indicative of all possible NSNs associated with this CID.

Rotary wheel wire brush.								
National Stock Numbers	Type	Class	Outside brush diameter (inch)	Wire diameter (inch)	Arbor hole (inch)	Wire trim length (inch) (min-max)	Number of wire points	Max safe free speed. (RPM)
5130-00-880-3545	I	3	1	0.006	1/4	3/16 - 5/16	2,520	8,000
5130-01-054-5079	I	2	1	0.006	1/4	3/16 - 5/16	2,520	2,000
5130-00-542-3207	I	3	1-3/8	0.006	1/4	5/16 - 7/16	3,450	20,000
5130-00-880-3546	I	2	1-1/2	0.006	3/8	5/16 - 7/16	3,780	8,000
5130-00-293-2720	I	3	1-1/2	0.014	3/8	5/16 - 7/16	1,000	8,000
5130-00-279-0702	I	3	2	0.006	1/2	7/16 - 9/16	6,000	8,000
5130-00-293-1992	I	3	2	0.0118	1/2	7/16 - 9/16	3,300	8,000
5130-00-262-7359	I	3	2	0.014	1/2	7/16 - 9/16	1,800	15,000
5130-01-054-7186	I	2	3	0.006	1/2	3/4 - 1.	7,650	15,000
5130-01-122-1135	I	2	3	0.006	1/2	7/16 - 9/16	7,100	8,000
5130-00-555-3377	I	2	4	0.003	3/8	3/4 - 1.	31,000	4,500
5130-00-293-2015	I	3	4	0.006	1/2	3/4 - 1.	10,400	4,500
5130-00-880-3547	I	2	4	0.006	1/2	3/4 - 1.	10,900	4,500
5130-00-528-2167	I	3	4	0.0095	1/2	3/4 - 1.	5,600	4,500
5130-00-880-3544	I	2	4	0.01	1/2	3/4 - 1.	5,600	4,500
5130-00-528-2166	I	3	4	0.0118	1/2	3/4 - 1.	4,400	4,500
5130-00-293-2719	I	3	4	0.014	1/2	3/4 - 1.	2,500	4,500
5130-00-293-0260	I	3	6	0.006	1/2	1-5/16 - 1-11/16	19,000	4,000
5130-00-293-2732	I	3	6	0.0095	1/2	1-5/16 - 1-11/16	7,600	4,000
5130-00-455-4199	I	2	6	0.01	1/2	1-5/16 - 1-11/16	7,600	4,000
5130-00-293-0263	I	3	6	.0118	1/2	1-5/16 - 1-11/16	5,100	4,000
5130-01-170-0131	I	3	6	.0118	1/2	1-5/16 - 1-11/16	5,100	4,500
5130-00-293-0262	I	3	6	.0118	1	1-5/16 - 1-11/16	5,100	4,000
5130-00-293-2718	I	3	6	.014	1/2	1-5/16 - 1-11/16	3,800	4,000
5130-00-542-4819	I	3	6	.014	5/8	1-5/16 - 1-11/16	3,800	4,000
5130-00-293-0259	I	3	6	.016	3/8	1-5/16 - 1-11/16	3,000	4,000
5130-00-293-2712	I	3	8	.006	1-1/4	1-11/16 - 2-1/16	18,900	3,500
5130-00-293-2727	I	3	8	.0095	1/2	1-11/16 - 2-1/16	8,000	3,500
5130-00-293-2733	I	3	8	.0118	1/2	1-11/16 - 2-1/16	6,400	3,500
5130-00-226-5141	I	3	8	.014	1/2	1-11/16 - 2-1/16	4,600	3,500
5130-00-293-2006	I	3	8	.014	3/4	1-11/16 - 2-1/16	4,600	3,500
5130-00-293-0267	I	3	8	.016	3/8	1-11/16 - 2-1/16	3,000	3,500
5130-00-293-0268	I	3	8	.0204	5/8	1-11/16 - 2-1/16	2,000	3,500
5130-00-293-2710	I	3	10	.006	1-1/4	2-1/4 - 2-3/4	26,700	3,000
5130-00-293-2731	I	3	10	.0095	3/4	2-1/4 - 2-3/4	10,000	3,000
5130-00-293-2726	I	3	10	.0095	1-1/4	2-1/4 - 2-3/4	10,000	3,000
5130-00-226-5142	I	3	10	.0104	5/8	2-1/4 - 2-3/4	8,000	3,000
5130-00-293-2717	I	3	10	.014	1/2	2-1/4 - 2-3/4	4,600	3,000
5130-00-528-2171	I	3	10	.014	3/4	2-1/4 - 2-3/4	4,600	3,000
5130-00-473-6441	I	3	10	.014	1-1/4	2-1/4 - 2-3/4	4,600	3,000
5130-00-293-2003	I	3	10	.016	1/2	2-1/4 - 2-3/4	3,600	3,000
5130-00-293-2709	I	3	12	.006	1-1/4	2-1/4 - 2-3/4	28,700	2,750
5130-00-293-0265	I	3	12	.0118	1-1/4	2-1/4 - 2-3/4	7,400	2,750

<u>National Stock Numbers</u>	<u>Type</u>	<u>Class</u>	<u>Outside brush diameter (inch)</u>	<u>Wire diameter (inch)</u>	<u>Arbor hole (inch)</u>	<u>Wire trim length (inch) (min-max)</u>	<u>Number of wire points.</u>	<u>Max safe free speed. (RPM)</u>
5130-01-035-8129	II	2	3	.014	3/8	9/16 - 11/16	5,700	20,000
5130-00-473-6440	II	3	4-1/2	.0118	1/2	9/16 - 1	13,400	4,500
5130-00-293-0258	II	3	4-1/4	.014	7/16	9/16 - 1	9,000	4,500
5130-00-293-2014	II	3	4-1/2	.014	1/2	9/16 - 1	9,000	4,500
5130-00-293-1987	II	1	6	.005	1/2	7/8 - 1-5/16	59,000	4,000
5130-01-043-2286	II	3	6	.006	1/2	7/8 - 1-5/16	43,700	4,500
5130-00-528-2169	II	3	6	.0118	1/2	7/8 - 1-5/16	15,360	4,000
5130-00-540-7141	II	3	6	.014	1/2	7/8 - 1-5/16	9,000	4,000
5130-00-455-5419	II	2	6	.014	5/8	7/8 - 1-5/16	9,000	4,000
5130-00-473-6444	II	3	6	.014	2	7/8 - 1-5/16	9,000	4,000
5130-00-293-0257	II	3	6	.0204	1/2	7/8 - 1-5/16	6,000	4,000
5130-01-049-8376	II	3	7	.014	2	7/8 - 1-5/16	11,800	3,600
5130-00-293-2730	II	3	8	.0095	1	1-5/16 - 1-11/16	26,000	3,500
5130-00-528-2168	II	3	8	.0118	1/2	1-5/16 - 1-11/16	21,000	3,500
5130-00-473-6445	II	3	8	.014	1	1-5/16 - 1-11/16	14,400	3,500
5130-00-630-4435	II	3	10	.006	7/8	1-3/4 - 2-1/4	58,800	3,000
5130-00-293-1997	II	3	10	.0104	2	1-3/4 - 2-1/4	39,000	3,000
5130-00-293-2017	II	3	10	.0104	3/4	1-3/4 - 2-1/4	36,000	3,000
5130-00-293-2723	II	3	10	.0118	1/2	1-3/4 - 2-1/4	28,000	3,000
5130-00-293-2724	II	3	10	.0118	3/4	1-3/4 - 2-1/4	28,000	3,000
5130-00-293-2000	II	3	10	.0118	7/8	1-3/4 - 2-1/4	28,000	3,000
5130-00-596-7695	II	3	10	.0118	1	1-3/4 - 2-1/4	28,000	3,000
5130-00-293-1998	II	3	10	.0104	7/8	1-3/4 - 2-1/4	23,000	3,000

7.3 Ordering data. The contract order should specify the following (in inches):

- (A) Title, number, and date of Commercial Item Description.
- (B) Type and class.
- (C) Brush outside diameter.
- (D) Wire diameter.
- (E) Arbor hole size.
- (F) Wire trim-length.
- (G) Wire point minimum. (Wire density)
- (H) Max RPM. (Free-speed)
- (I) Preservation, packing, and packaging of brushes, required.

7.4 Key words. Brushes, Wire, Rotary, Wheel, Crimped Wire.

MILITARY INTERESTS:

NONE: DoD has no registered interest in revisions and amendments to this Commercial Description until further notice.

Preparing Activity:

GSA - FSS