

INCH-POUND

A-A-3193

June 16, 2003**COMMERCIAL ITEM DESCRIPTION****BRUSHES, PAINT, SASH, AND TRIM**

The General Services Administration has authorized the use of this commercial item description by all federal agencies.

1. SCOPE. This commercial item description covers oval and angular sash tool paint brushes. Brushes made with natural hog bristle (Class 1) are recommended for application of solvent borne paints and coatings. Brushes made with synthetic filaments (Class 2) are recommended for application of water borne paints and coatings.

2. CLASSIFICATION. The brushes shall be of the following types, classes, and sizes (Size denotes width or diameter and length of bristle outside of ferrule).

Type 1 - Oval		Type 2 - Angular	
Class 1 - Bristle		Class 1 - Bristle	
Class 2 - Synthetic Filament		Class 2 - Synthetic Filament	
Size	mm (inches)	Size	mm (inches)
6	22 by 18 (7/8) by (11/16)	5	25 by 56 (1) by (2-3/16)
8	25 by 21 (1) by (13/16)	7	38 by 56 (1-1/2) by (2-3/16)
10	29 by 24 (1-1/8) by (15/16)	9	51 by 62 (2) by (2-7/16)
12	32 by 27 (1-1/4) by (1-1/16)	11	64 by 68 (2-1/2) by (2-11/16)
14	21 by 43 (27/32) by (1-11/16)	13	76 by 75 (3) by (2-15/16)

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

A-A-3193

3. SALIENT CHARACTERISTICS:

3.1 Design and construction - Brushes specified herein this commercial item description shall consist of a handle with bristles held in place by means of a ferrule and setting compound.

3.2 Bristle (Class 1) - The bristle for Class 1 brushes shall be untreated natural hog bristle. The bristle shall be boiled or steamed to prevent twisting or curling. Recycled bristle will not be accepted.

3.3 Synthetic filaments (Class 2) - The synthetic filament for Class 2 brushes shall be an organic polymeric material, tapered filaments meeting the size designation of Table II. All filaments shall be tipped to a depth of not less than 5 mm (3/16). After tipping, 20 percent, by weight, of the top-sized filaments, shall be flagged

3.4 Ferrule - The ferrule shall be made of corrosion resistant metal, or metal made corrosion resistant by a coating. The Type 1 ferrule metal shall have a minimum wall thickness of 0.4 mm (0.015 inch). The Type 2 ferrule metal shall have a minimum wall thickness of 0.25 mm (0.10 inch), and shall be formed with an interlock, locked-seamed, soldered, or welded endlap, and shall have a groove at the base to aid in controlling the flow of the setting compound.

3.5 Handle - The handle shall be smoothly finished close-grained hardwood or a synthetic material with all spurs and runners removed.

3.6 Filler strips - Filler strips shall be made of wood, metal, or plastic.

3.7 Set - The butt ends of the bristles or filaments shall be set in a setting compound.

3.8 Setting compound - The setting compound shall be an epoxy cement.

3.9 Assembly - The ferrule shall be fastened to the handle, as follows, using corrosion resistant nails with a minimum length of 9 mm (3/8 inch) and a shaft diameter of 1 - 2 mm (0.04 - 0.06 inch):

- (a) For oval (Type 1) brushes, there shall be a minimum of three nails evenly spaced around the ferrule.
- (b) For angle (Type 2), size 5 brushes, there shall be a minimum of three nails used, with two nails evenly spaced on one side and one nail approximately centered on the opposite side.
- (c) For angle (Type 2), sizes 7, 9, 11, and 13 brushes, there shall be a minimum of four nails used, with two nails, evenly spaced, on each side of the brush.

3.10 Trim - Brushes shall be cupped or machine chiseled with a minimum chisel of 6 mm (1/4 inch). If machine chiseled, the ends shall be sanded. The flagged ends of the top size bristles shall be preserved. The ends of synthetic filament shall be sanded to a fine soft edge.

3.11 Composition and Physical Requirements:

3.11.1 Angular (Type 1), Hog Bristle (Class 1) - The bristle shall be 60 percent top size and blended in accordance with Table I. (Dressed bristle, described as 60 percent top size, denotes that bundle consists of 60 percent bristle measuring 2 mm (1/16 inch) or more above the length specified to 3 mm (1/8 inch)

A-A-3193

below the length specified; 10 percent 9.5 mm (3/8 inch) to not more than 12.7 mm (1/2 inch) below specified length but including a few unavoidable shorts and blended in accordance with Table I.

#TABLE I. Physical Requirements for Type 1, Class 1 and 2 Brushes:

Brush size	6	8	10	12
Width of brush inside ferrule, mm, (inches), minimum	21 (27/32)	25 (31/32)	28 (1-3/32)	31 (1-7/32)
Brush thickness inside ferrule, mm, (inches), minimum	17 (21/32)	20 (25/32)	23 (29/32)	26 (1-1/32)
Bristle/filament length outside ferrule, mm, (inches), minimum	56 (2-3/16)	62 (2-7/16)	68 (2-11/16)	75 (2-15/16)
Diameter of handle at ferrule, mm, (inches), minimum	19 (3/4)	23 (29/32)	26 (1-1/32)	27 (1-1/16)
Weight of bristles per Class 1 brush, grams, minimum	10	15	20	29
Weight of filament per Class 2 brush, grams, minimum	11	17	23	33
Blend of bristles, percentage and length, mm, (inches)	100% 64 (2-1/2)	20% 64 (2-1/2)	5% 64 (2-1/2)	5% 70 (2-3/4)
		80% 70 (2-3/4)	15% 70 (2-3/4)	15% 76 (3)
			80% 76 (3)	80% 83 (3-1/4)
Filament size: blend of filament, percentage, and length, mm, (inches):	9-5: 100% 64 (2-1/2)	9-5: 70% 70 (6.99)	9-5: 60% 76 (7.62)	9-5: 50% 83 (8.26)
		12-8: 30% 64 (2-1/2)	12-8: 20% 64 (2-1/2)	12-8: 20% 70 (2-3/4)
			12-8: 20% 70 (2-3/4)	12-8: 20% 76 (3)
				12-8: 10% 83 (3-1/4)
Bristle 76 mm (3-inches) and longer shall be 20% stiff and 80% soft. Bristle shorter than 76 mm (3 inches) shall be 100% soft.				

#Note - Physical requirements for brush size 14, Type 1, Class 1 and 2 brushes are unavailable

A-A-3193

3.11.2 Angular (Type 2), Synthetic (Class 2) filament conforming to 3.3 shall be blended as specified in Table II, with a tolerance of plus or minus 3 percent for each length and stiffness specified.

TABLE II. Physical Requirements for Type 2, Class 1 and 2 Brushes:

Brush Size	5	7	9	11	13
Width of brush inside ferrule, mm, (inch), minimum	25 (1)	38 (1-1/2)	51 (2)	64 (2-1/2)	76 (3)
Brush thickness inside ferrule, mm, (inch), minimum	10 (3/8)	11 (7/16)	13 (1/2)	16 (5/8)	18 (11/16)
Bristle/filament length outside ferrule, mm, (inch), minimum	56 (2-3/16)	56 (2-3/16)	62 (2-7/16)	68 (2-11/16)	24 (2-15/16)
Class 1: Weight of bristles per Class 1 brush, grams, minimum	9	15	21	27	40
Class 2: Weight of filament per Class 2 brush, grams, minimum	9	15	23	33	50
Class 1: Blend of bristles, percentage and length, mm, (inch), minimum	100% 64 (2-1/2)	100% 64 (2-1/2)	20% 64 (2-1/2) 80% 70 (2-3/4)	5% 64 (2-1/2) 15% 70 (2-3/4) 80% 76 (3)	5% 70 (2-3/4) 15% 76 (3) 80% 83 (3-1/4)
Class 2: Filament size, blend of filament, percentage and length, mm, (inch), minimum	9-5 30% 57 (2-1/4) 9-5 70% 64 (2-1/2)	9-5 30% 57 (2-1/4) 9-5 70% 64 (2-1/2)	9-5 70% 70 (2-3/4) 12-8 30% 64 (2-1/2)	9-5 60% 76 (3) 12-8 20% 64 (2-1/2) 12-8 20% 70 (2-3/4)	9-5 50% 83 (3-1/4) 12-8 10% 83 (3-1/4) 12-8 20% 76 (3) 12-8 20% 70 (2-3/4)

A-A-3193

TABLE II. Physical Requirements for Type 2, Class 1, and 2 Brushes

Brush Size	5	7	9	11	13
Ferrule Height: Long Side, mm, (inches), +/- 1/8 inches	38 (1-1/2)	45 (1-3/4)	45 (1-3/4)	48 (1-7/8)	48 (1-7/8)
Ferrule Height: Short Side, mm, (inches), +/- 1/8 inches	33 (1-5/16)	37 (1-7/16)	37 (1-7/16)	33 (1-5/16)	30 (1-3/16)
Bristle 83 mm (3-1/4 inches) and longer shall be 20% stiff and 80% soft. Bristles shorter than 83 mm (3-1/4 inches) shall be 100% soft.					

4. REGULATORY REQUIREMENTS:

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

5. PRODUCT CONFORMANCE:

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

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

6. PACKAGING. Preservation, packaging and marking shall be as specified in the contract or order.

7. NOTES:

7.1 Source of Documents.

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

7.2 Ordering data. The contract or order should specify the following:

- a. CID document number
- b. National Stock Number (NSN)
- c. Type, Class, Size
- d. Packaging requirements

A-A-3193

7.3 National Stock Numbers (NSN's). A list of NSN's assigned that correspond to this CID. The list may not be indicative of all possible NSN's associated with CID. The term *size* is defined as either the ferrule diameter inside at brush end, outside diameter of ferrule at same end, or brush width (Refer to the appropriate Tables I and II).

NSN	TYPE	CLASS	SIZE
8020-00-205-6510	1	1	12
8020-00-205-6511	1	1	8
8020-00-205-6512	1	1	10
8020-00-263-3873	1	2	6
8020-00-263-3874	1	2	8
8020-00-297-6657	1	2	12
8020-00-297-6658	1	2	10
8020-00-559-0389	2	1	9
8020-00-559-0438	2	1	5
8020-00-559-0439	2	1	7
8020-00-597-5301	1	1	6
8020-00-239-0955	1	1	14#
8020-01-303-9726	2	2	5
8020-01-303-9727	2	2	9
8020-01-303-9728	2	2	11
8020-01-303-9729	2	2	13
8020-01-303-9730	2	2	7
8020-01-327-3017	2	1	13
8020-01-327-3015	2	1	11

#Note - This is a departure from standard brush sizes. Physical requirements per TABLE I of this document are unavailable.

7.4 Key words. Brushes Artist

MILITARY INTEREST:

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

Preparing Activity:
GSA-FSS