

[METRIC]
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COMMERCIAL ITEM DESCRIPTION

KIT, PAINT ROLLER

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

1. Scope. This commercial item description covers paint roller kits consisting of a roller frame and cage assembly (with threaded handle grip), and a plastic or metal paint tray. If so specified in the contract or order, the kit may also contain a bucket grid, and/or an extension handle.

1.1 Classification.

1.1.1 Types and classes. The paint roller cover type, class and size, as specified in the contract or order, shall determine the type class and size of the paint roller kit.

2. Applicable documents.

2.1 Commercial Item Descriptions.

A-A-2121 - Cover, Paint Roller
A-A-1913 - Bucket Grid
A-A-1915 - Tray, Paint roller

2.2 Federal Specifications.

NN-H-104 - Handle, extension

(Copies of this commercial item description and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available from the following address: GSA Specifications Section (3FBP-W), Suite 8100, 470 L'enfant Plaza SW, Washington, DC 20407.)

(Federal Government activities may obtain copies of Commercial Item Descriptions, Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

2.3 Voluntary Standards.

Beneficial comments, recommendations, additions, deletions, clarification, etc., and any data which may improve this document, should be sent to: GSA, Paints and Chemicals Commodity Center, 400 15th Street, S.W., Auburn, WA 98001.

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Distribution is unlimited.

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2.3.1 American Society for Testing and Materials

ASTM D 638 - Test Method for Tensile Properties of Plastics

(Application for copies of ASTM Standards should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

3. Salient characteristics.

3.1 Design. The paint rollers shall be of the slip-off design.

3.2 Handle grip. The handle grip shall be either a close grained hardwood, smoothly finished, or it shall be of a molded plastic.

3.2.1 Wooden grip. When the handle grip is wood, a metal ferrule shall surround the grip at the forward outer end to retard splitting. The grip shall be attached to the handle by means of screw threads.

3.2.2 Plastic grip. When the grip is plastic, it shall have a tensile strength of not less than 24 MPa (3,500 pounds per square inch) when tested in accordance with ASTM D 638. The grip shall be securely attached to the frame by pressure bonding or other means resulting in a bond which will not fail when a torque of 2.8 Nm (25 inch-pounds) is applied as specified in 4.2. For pressure bonded handle grips, the rod shall have a swedge approximately 25.4 mm (1 inch) in length and approximately 64 mm (2-1/2 inches) from outer end.

3.2.3 Frame. The frame shall be fabricated of 8 mm (5/16 inch) diameter steel wire having a tolerance of +/- 0.06 mm (+/- 0.0025 inch). The wire shall be corrosion resistant steel or shall have a galvanized or chromed finish and shall show no evidence of peeling or wrinkling. The frame shall have the handle grip firmly attached. Wire bends shall not have gouges or nicks from the bending processes. The frame shall be arranged to permit mounting the roller cage at 90 degrees (+/- 5 degrees) to the handle and to center the roller cage to within 13 mm (1/2 inch) of the center line of the handle. The cage shall be retained on the frame by a lock nut, filister head screw, or equal means. Lateral movement of the frame shall be restricted to 3 mm (1/8 inch) or less by crimping, or other means, which does not materially weaken the frame. The frame shall be for use with 102 mm (4-inch), 178 mm (7-inch), 229 mm (9-inch), or 457 mm (18-inch) roller covers as specified by contract or order.

3.2.4 Cage (Roller mounting assembly).

3.2.4.1 Bearings (or end caps). The roller cage bearings or end caps shall be of die cast or extruded nonferrous metal, or they shall be of a molded or extruded plastic having a tensile strength of not less than 14 MPa (2,000 pounds per square inch) when tested in accordance with ASTM D 638.

3.2.4.2 Roller mounting assembly. The end caps shall be assembled to form a cage, with 4 or more wires of not less than 3 mm (0.12 inch) diameter. The wires shall be of corrosion resistant steel or shall have a galvanized or chromed finish and shall show no evidence of peeling or wrinkling. Washers of corrosion resistant steel or having a galvanized finish shall be used at either end of the cage to prevent excessive wear on the faces of the end caps, and to limit end play of cage to 3 mm (1/8 inch) or less. The cage shall be so arranged that a force of more than 27N (6 pounds) shall be required to remove a roller cover from the cage.

3.2.5 Accessories. When specified, the following accessories shall be furnished.

3.2.5.1 Extension handle. The extension handle shall be Type 1, size 1 of NN-H-104. When specified, in the contract or order, the handle length shall be 152 cm (60 inches) +/- 2.54 cm (+/- 1) inch in lieu of the 48 inch length specified in NN-H-104.

3.2.5.2 Bucket grid. The bucket grid shall be in accordance with commercial item description A-A-1913, as specified in the contract or order.

3.2.5.3 Paint tray. The paint roller tray shall be in accordance with commercial item description A-A-1915, as specified in the contract or order.

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3.2.6 Workmanship. All components of the paint roller kit (as specified) shall be free from defects that will affect performance and appearance. Metal parts shall be free of burrs, nicks, and peeling or loose plating. Molded parts shall not be mismatched.

4. Quality Assurance Provisions.

4.1 Certification. The contractor shall certify that the product offered meets the salient characteristics of this description, and that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices and is the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

4.2 Test for resistance to torque. The apparatus for this test is illustrated in Figure 1. It consists of a base, firmly attached to a rigid surface. Attached to the base by a rotating pivot is a block, having a recess in its outer face which is capable of accommodating and holding fast approximately 12.7 mm (0.5 inch) of the wire in the handle under test. Attached to the block, perpendicularly to the pivot, is a slotted arm, calibrated in inches, and capable of accommodating a hanging weight. On the opposite of the pivot, as an extension of the calibrated arm, is a counterweight to keep the arm in balance. For this test, the roller frame shall be cut above the handle immediately before the first bend in the wire. The cut end of the wire shall be put into the recess of the block and firmly attached. The handle shall be grasped near the middle arm, to a known torque. The weight, in pounds, times the length of the arm in inches, from the pivot point to where the weight is attached is equivalent to "inch-pounds of torque." (For instance, a 15-pound weight applied 10 inches from the axis of the wire produces a torque of 150 inch-pounds.)

Preservation, packaging, packing, labeling, and marking. Unless otherwise specified, preservation packaging and packing shall be to the degree of protection to preclude damage to containers and/or contents thereof under normal shipping conditions, handling, etc., involving shipment from the supply source to the receiving activity, plus reshipment from receiving activity, and shall conform to applicable carrier's rules and regulations. Intermediate and external package quantities and labeling and marking shall be specified in the contract or order.

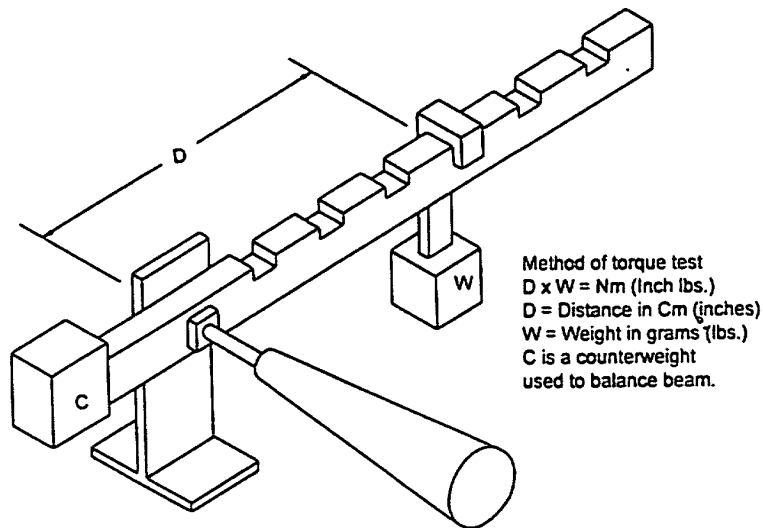


Figure 1. Torque Test Apparatus

PREPARING ACTIVITY

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