

A-A-1357
May 9, 1980

COMMERCIAL ITEM DESCRIPTION

WRENCH, ENGINEER'S, SINGLE HEAD, OPEN END, 15° HEAD

The General Services Administration has authorized the use of this commercial item description in lieu of Federal Specification GGG-W-636.

This commercial item description covers wrenches suitable for hexagonal and square-headed bolts and nuts, assigned National Stock Numbers (NSN's) as listed below.

Salient characteristics:

Material: Steel, Rockwell C hardness of 40 minimum, 55 maximum.
Finish: Enamel coating. Both faces shall have a maximum roughness height value of 30 microinches (A.A.).
Marking: Marked in a plain and permanent manner with wrench opening size on the face or on the handle as close to the head as practicable and with manufacturer's name or trademark.
Handles: Wrenches with openings 1-1/2 inches and less shall have flared handles. Wrenches with openings larger than 1-1/2 inches shall have tapered handles.
Wrench opening: Sized to pass the gaging requirements of Federal Standard 346.
Chamfer: Tips chamfered or rounded to eliminate burrs.

National Stock Number	Wrench opening (distance across flats) (Inches)	Overall length (minimum) (Inches)	Width of head (maximum) (Inches)	Thickness of head (maximum) (Inches)	Test load (minimum) (in/lb)
5120-00-277-1261*	3/8	3-7/8	1	17/64	540
5120-00-277-1262	7/16	4-1/2	1-1/4	5/16	760
5120-00-277-1259	1/2	4-1/2	1-1/4	5/16	1,170
5120-00-277-1260	9/16	5-3/8	1-15/32	3/8	1,640
5120-00-277-1258	5/8	6-1/4	1-11/16	7/16	2,600
5120-00-184-8595	11/16	6-1/2	1-11/16	7/16	2,250
5120-00-277-2691	3/4	7-1/8	1-15/16	7/16	3,200
5120-00-277-1256	13/16	8	2-3/16	1/2	3,480
5120-00-277-1253	7/8	8	2-3/16	1/2	3,910
5120-00-277-1254	15/16	9-1/8	2-5/16	9/16	4,860
5120-00-277-1251	1	9-1/8	2-5/16	9/16	5,850
5120-00-277-1252	1-1/16	10-3/8	2-13/16	5/8	6,390
5120-00-277-1249	1-1/8	10-3/8	2-13/16	5/8	6,390
5120-00-277-1250	1-1/4	11-7/8	3-3/16	3/4	8,500
5120-00-277-1247	1-5/16	11-7/8	3-3/16	3/4	9,450
5120-00-277-1248	1-7/16	13-3/8	3-7/8	7/8	11,300
5120-00-277-1246	1-1/2	13-3/8	3-7/8	7/8	12,420
5120-00-277-1244	1-5/8	14-7/8	4	7/8	14,850
5120-00-277-1245	1-11/16	14-7/8	4	7/8	17,280
5120-00-277-1242	1-13/16	16-3/8	4-1/2	15/16	22,500
5120-00-277-1243	1-7/8	16-3/8	4-1/2	15/16	25,920
5120-00-277-1240	2	18	4-13/16	1	33,480
5120-00-277-1238	2-3/16	19-3/4	5	1-1/8	46,620
5120-00-277-1239	2-1/4	19-3/4	5	1-1/8	51,660
5120-00-277-1236	2-3/8	21-3/4	6	1-1/4	61,560
5120-00-293-1346	2-3/4	25	7	1-11/16	25,000

*This wrench is chromium plated in lieu of enamel coating.

A-A-1357



FIGURE 1. Wrench, engineer's

Workmanship. Wrench shall be free from rust, burrs, fins, nodules, and other defects which may impair serviceability, durability, or appearance. The edges and corners of the wrench shall be clearly defined and smoothly finished.

The issue of Federal Standard 346 in effect on the date of the solicitation shall be used to determine compliance with stated requirements.

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.

Recovered materials. The manufacturer shall utilize recovered materials to the maximum extent practicable.

Packaging, packing and marking. The wrenches shall be packaged in accordance with normal commercial practice and packed in fiberboard boxes that will assure acceptance by common carrier and provide product protection against loss or damage during multiple shipment, handling and storage. The shipping containers shall be in compliance with the National Motor Freight Classification and Uniform Freight Classification. Marking shall be as specified in the contract or order.

Federal Standards are available from GSA, Specification Sales, Building 197 (Washington Navy Yard), Washington, DC 20407.