

[METRIC]
A-A-58044
30 June 1995

COMMERCIAL ITEM DESCRIPTION
N-METHYLPYRROLIDONE

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

1. SCOPE. This commercial item description covers N-methylpyrrolidone for cold-wipe removal of overspread and/or overspray of polysulfide sealants and epoxy adhesives from aircraft and aerospace ground equipment surfaces.

Table I

CAS Registry No:	00872-50-4
CAS Registry Name:	2-Pyrrolidone, 1-Methyl-
Synonym:	N-Methylpyrrolidone

2. SALIENT CHARACTERISTICS.

2.1 Workmanship: The product shall consist of a stable, homogeneous fluid free from dirt, fibers, lints, chips, trash, and/or foreign matter. The material shall not contain any amount of any chlorinated compounds, phosphates, abrasives, chromates, phenols, cresols, amines, petroleum hydrocarbons, lead, mercury, cadmium, chromium, sodium chloride, urea, sodium, sulfates, nitrates, nitrites, any of the EPA 17 chemicals, or any ozone depleting compounds.

2.2 Physical Properties: The product shall have physical properties described in Table II when tested according to the methods of Table II.

2.3 Nonvolatile Residue: Transfer 10 ± 1 grams of product to the round bottom flask of a Kugelrohr apparatus. Assemble the apparatus and operate at 1 to 2 mmHg and $65 \pm 2^\circ\text{C}$ for 60 ± 5 minutes. Calculate the weight percent gravimetrically.

Beneficial comments, recommendations, additions, deletions, clarifications, etc, and any data which may improve this document should be sent to:

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AMSC N/A

FSC 6810

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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Table II.

Component	Limit	Method
Assay, % by wt, min	99.0	Gas Chromatography
Water, % by wt, max	0.1	ASTM E 1064
Color, max	100	APHA 204A
γ -Butyrolactone, % by wt, max	Report	Gas Chromatography
Foreign matter	None allowed	Visual
Nonvolatile Residue, % by wt, max ¹	0.10	Paragraph 2.3

¹This requirement does not apply to product that has been purified by vacuum distillation.

2.4 Corrosion: The material shall be tested according to ASTM F 483 (Total Immersion Corrosion). Test panels shall be prepared from cold-rolled sheet carbon steel and sheet aluminum conforming to MIL-S-7952 and QQ-A-250, respectively. Steel panels shall be fabricated from 1020 alloy. Aluminum test panels shall be fabricated from 2024 and 7075 alloy. The product shall not cause etching, accretion, or pitting corrosion; nor any discoloration or dulling of the panels; nor cause a weight change of an average of three test panels greater than that shown in Table III.

Table III

Alloy	Average of 3 Panels Weight Loss, Max (mg/cm ² /168 hrs)
2024 Clad Aluminum	0.5
7075 Clad Aluminum	0.05
1020 Steel	0.05

3. QUALITY ASSURANCE PROVISIONS.

3.1 Contractor Certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. 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. PACKAGING.

4.1 Preservation, Packaging, Packing and Marking: The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

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5. NOTES.

5.1 Part Identification Number (PIN): The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

This example describes a part numbering system for CID A-A-58044.

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└── Size of container in litres.

5.2 Source of Documents:

5.2.1 ASTM standards may be obtained from the American Society for Testing & Materials, 1916 Race Street, Philadelphia PA 19103.

5.2.2 Standard Methods for the Examination of Water and Wastewater which contains the APHA test methods may be obtained from the American Public Health Association, 20301 M St NW, Washington DC 20037-1484.

Review activity:
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