



AEROSPACE STANDARD

AS7241™**REV. A**

Issued 2006-11
Revised 2011-10
Reaffirmed 2022-09

Superseding AS7241

Washers, Spring Lock, Corrosion-Resistant Steel,
18Cr - 9Ni (UNS S30200),
Procurement Specification for

RATIONALE

AS7241A has been reaffirmed to comply with the SAE Five-Year Review policy.

1. SCOPE

1.1 Type

This procurement specification covers plain helical lock washers made of corrosion-resistant steel of the type identified under the Unified Numbering System as UNS S30200.

1.2 Application

Primarily for use with corrosion-resistant steel threaded fasteners; not recommended for use at temperatures higher than 700 °F (370 °C).

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AMS2248 Chemical Check Analysis Limits, Wrought Corrosion and Heat Resistant Steels and Alloys, Maraging and Other Highly-Alloyed Steels, and Iron Alloys

AMS2371 Quality Assurance Sampling of Corrosion and Heat Resistant Steels and Alloys, Wrought Products Except Forgings and Forging Stock

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<https://www.sae.org/standards/content/AS7241A/>

Documents
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2.1.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM E 18 Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials

ASTM E 353 Chemical Analysis of Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys

2.1.3 ANSI Publications

Available from ANSI, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ANSI/ASQC Z1.9 Sampling Procedures and Tables for Inspection by Variables for Percent Nonconforming

2.1.4 U.S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6257, <http://assist.daps.dla.mil/quicksearch/>.

MIL-STD-2073-1 Standard Practice for Military Packaging

2.2 Unit Symbols

°F - degree, Fahrenheit

°C - degree, Celsius

% - percent (1% = 1/100)

mm - millimeter

in - inch

3. TECHNICAL REQUIREMENTS

3.1 Material

3.1.1 Chemical Composition

Shall conform to the following percentages by weight, determined by wet chemical methods in accordance with ASTM E 353 or by spectrochemical or other analytical methods approved by purchaser:

TABLE 1 – CHEMICAL COMPOSITION

	min	max
Carbon	--	0.15
Manganese	--	2.00
Silicon	--	1.00
Phosphorus	--	0.040
Sulfur	--	0.030
Nickel	8.00	10.00
Chromium	17.00	19.00
Molybdenum	--	0.75
Copper	--	0.75



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