

AEROSPACE MATERIAL SPECIFICATION

SAE

AMS 5783F

Issued JUL 1948
Revised JUL 1987
Noncurrent MAR 1994
Cancelled MAY 2001
Superseded by AWS A5.4 Class
E349-XX

Steel, Corrosion and Heat Resistant Welding Electrodes, Covered
19.5Cr - 8.8Ni - 0.50Mo - 1.5W - 1.0Cb
(Composition similar to UNS W34910)

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of May 2001 and has been superseded by AWS A5.4 Class E349-XX. The requirements of the latest issue of AWS A5.4 Class E349-XX shall be fulfilled whenever reference is made to the cancelled AMS 5783. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Materials Specifications noting that it is superseded by AWS A5.4 Class E349-XX.

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1. SCOPE:

1.1 Form:

This specification covers a corrosion and heat resistant steel in the form of covered welding electrodes.

1.2 Application:

Primarily for shielded-metal-arc welding of parts fabricated from steels of similar or dissimilar composition, particularly when the weld zone is required to have corrosion and heat resistance comparable to those of the parent metal.

1.3 Classification:

Electrodes covered by this specification are classified as follows:

Type A - DC	(AWS-15) Flat, Vertical, Overhead, and Horizontal
Type B - DC-AC	(AWS-16) Flat, Vertical, Overhead, and Horizontal
Type C - DC	(AWS-15) Horizontal Fillets, Flat
Type D - DC-AC	(AWS-16) Horizontal Fillets, Flat

1.3.1 When DC is specified, reverse polarity (electrode positive) is required.

1.3.2 Lime type coverings are required for Types A and C electrodes.

1.3.3 Type "A" electrodes shall be supplied unless another type electrode is ordered.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications shall apply. The applicable issue of other documents shall be as specified in AMS 2350.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096.

2.1.1 Aerospace Material Specifications:

AMS 2350 Standards and Test Methods

2.2 ASTM Publications:

Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM E353 Chemical Analysis of Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys

2.3 U.S. Government Publications:

Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

2.3.1 Military Specifications:

MIL-W-10430 Welding Rods and Electrodes; Preparation for Delivery of

2.4 AWS Publications:

Available from American Welding Society, Inc., P.O. Box 351040, Miami, FL 33135.

AWS A5.4 Corrosion-Resisting Chromium and Chromium-Nickel Steel Covered Welding Electrodes

3. TECHNICAL REQUIREMENTS:

3.1 Composition:

Weld metal deposited from electrodes shall conform to the following percentages by weight, determined by wet chemical methods in accordance with ASTM E353 or by spectrographic or other analytical methods approved by purchaser: