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GENERAL DYNAMICS
Fort Worth Division
Code Ident 81755
Contract No. F33657-C-0310

SPECIFICATION FMS-1011C
DATE: 22 March 1982
Superseding FMS-1011B
Dated: 2 May 1967

PROCUREMENT SPECIFICATION FOR STEEL

Cr-Mo-V-Ni, TYPE D6ac

1. SCOPE

1.1 This specification establishes the requirements for procuring vacuum melted Cr-Mo-V-Ni, Type D6ac steel forged billets, reforging stock, bar, rods, plate, sheet, rolled rings and extrusions.

1.2 The material procured to this specification is intended for use in the fabrication of aircraft structural parts which may require a weldable high strength steel (180 KSI ultimate tensile strength or higher).

(C) 2. APPLICABLE DOCUMENTS

2.1 The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the document issue in effect on date of purchase order shall be applicable. The effectivity of specifications or documents cited within these documents shall be in accordance with the documents listed below.

Federal Test Method Standard 151	Metals, Test Methods
Federal Standard No. 48 Notice 1	Tolerances for Steel and Iron Wrought Products
MIL-I-6868	Inspection Process; Magnetic Particle
AMS-2300	Premium Quality Steel Cleanliness Magnetic Particle Inspection Procedure
ASTM E45-61	Recommended Practice for Determining the Inclusion Content of Steel
NDTS-5101	Ultrasonic Inspection of Raw Materials

3. REQUIREMENTS

(C) 3.1 Manufacturing Method: Manufacturing Method: Material procured to this specification shall be produced by the consumable electrode vacuum melting process. All material working operations excluding original cast ingot breakdown, such as forging, rolling, extruding, etc. shall be limited to temperatures not to exceed 2250°F.

3.2 Production Capability: Each producer shall have proven capabilities in producing this material in production lots in the form or forms specified by the purchase order. In addition, the producer must have adequate capabilities in the area of production quality control, metallurgical laboratory control, facilities, and customer technical support.