Society of Automotive Engineers, Inc.
485 LEXINGTON AVENUE, NEW YORK, N.Y. 10017

AEROSPACE MATERIAL SPECIFICATION

AMS 6266C
Superseding AMS 6266B
Issued 3-1-49
Revised 5-1-68

STEEL BARS, FORGINGS, AND TUBING
0.50Cr - 1.85Ni - 0.25Mo - B (0.08 - 0.13C) (43BV12)

1. ACKNOWLEDGMENT: A vendor shall mention this specification and its revision letter in all quotations and when acknowledging purchase orders.

2. FORM: Bars, forgings, mechanical tubing, and forging stock.

3. APPLICATION: Carburized parts, including gears, which require high minimum core hardness with narrow range. The core is machinable after hardening.

4. COMPOSITION:

		min	max
Carbon		0.08	0.13
Manganese		0.75	1.00
Silicon		0.20	0.40
Phosphorus		--	0.025
Sulfur		--	0.025
Chromium		0.40	0.60
Nickel		1.65	2.00
Molybdenum		0.20	0.30
Boron	Present but not exceeding	--	0.007
Vanadium		0.03	0.08
Copper		--	0.35

4.1 Check Analysis: Composition variations shall meet the requirements of the latest issue of AMS 2259, paragraph titled "Low Alloy Steels".

5. CONDITION: Unless otherwise ordered, the product shall be supplied in the following condition:

5.1 Bars: In a machinable condition and hot finished having hardness not higher than Brinell 229 or equivalent, except that bars ordered cold finished may have hardness as high as Brinell 248 or equivalent.

5.2 Forgings: As ordered.

5.3 Mechanical Tubing: In a machinable condition and cold finished having hardness not higher than Rockwell C 25 or equivalent, except that tubing ordered hot finished shall be furnished in a machinable condition having hardness not higher than Rockwell B 99 or equivalent.

5.4 Forging Stock: As ordered by the forging manufacturer.

6. TECHNICAL REQUIREMENTS: When ASTM methods are specified for determining conformance to the following requirements, tests shall be conducted in accordance with the issue of the ASTM method listed in the latest issue of AMS 2350.