## Material Specification



Meritor Automotive, Inc. 2135 West Maple Road Troy, MI 48084-7186

Specification:

B222-1

Revision Date: 12/15/89

## ALLOY STEEL - CARBURIZING GRADE - SAE 94B17H

- 1. General Specification: Material Specification B-1.
- 2. Scope: This specification covers a high grade alloy steel suitable for use in the manufacture of gearing and other carburized parts. It shall be comparable in composition with SAE 94B17H.
- 3. Chemical Composition:

Carbon	
Manganese	0.70-1.05%
Silicon	
Nickel	
Chromium	
Molybdenum	0.08-0.15%
Boron	0.0005-0.0025%
Phosphorus	0.035% max.
*Sulfur	
Titanium	
	only)

- \*Aim sulfur .025% min., this is to aid in improving machinability.
- 4. Hardenability:

Restricted range for following applications

	Jom: <u>J4</u>	iny Dis <u>J8</u>	stances <u>J12</u>	Requirement level
HRC MIN	39	29	24	5 50% of the H BAND) AIM AIM 50% of the H Band ) MANDATORY MANDATORY
HRC MAX	43	37	30	

- 5. Application: Spiral bevel & hypoid gears and pinions, differential side gears.
- 6. Formerly AO spec. BB-222-1

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