AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 5788

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COATING ALLOY
Cobalt Base - 28Cr - 4.5W

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

2. FORM: Rods, or as ordered.

3. APPLICATION: Primarily as a heat and corrosion resistant hard coating, but may be used for other purposes when applicable.

4. COMPOSITION:

Carbon	0.90 - 1.40
Manganese	0.50 max
Silicon	0.70 - 1.50
Chromium	26.00 - 30.00
Nickel	3.00 max
Molybdenum	1.00 max
Tungsten	3.50 - 5.50
Iron	3.00 max
Cobalt	remainder

5. CONDITION: As cast, with surface fins and projections removed.

6. TECHNICAL REQUIREMENT: Material shall melt quickly and flow freely under oxyacetylene flame, without bubbling or boiling, so as to produce an adherent deposit free from porosity due to blowholes, gas cavities or slag inclusions.

7. QUALITY: Material shall be uniform in quality and condition, clean, and free from foreign materials and from internal and external defects detrimental to use.

8. TOLERANCES:

8.1 Diameter: Plus and minus 1/32 inch.

8.2 Concentricity: When long lengths are supplied as welded composites of cast lengths, the diameters of the adjacent sections shall be concentric within 1/32 inch.

9. REPORTS: Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a report of the results of tests for chemical composition of each heat in the shipment. This report shall include the purchase order number, heat number, material specification number, size, and quantity from each heat. When heats are so small as to make analysis of each heat impractical, the heats produced in a working day may be grouped together as a lot and the lot analysis reported.

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