



AEROSPACE MATERIAL SPECIFICATION

AMS5792™**REV. C**

Issued	1986-01
Revised	2006-08
Reaffirmed	2018-10
Stabilized	2024-04

Superseding AMS5792B

Powder, Plasma Spray
50 (88WC - 12Co) + 35 (70Ni - 16.5Cr - 4Fe - 4Si - 3.8B) + 15 (80Ni - 20Al)
Three-Component Mixture

RATIONALE

AMS5792C has been declared "STABILIZED" by SAE AMS Committee F Corrosion and Heat Resistant Alloys. This document will no longer be updated and may no longer represent standard industry practice. This document was stabilized because the document contains mature technology that is not expected to change and thus no further revisions are anticipated.

Previously this document was reaffirmed. The last technical update of this document occurred in August 2006. Users of this document should refer to the cognizant engineering organization for disposition of any issues with reports/certifications to this specification; including exceptions listed on the certification.

NOTE: In many cases, the purchaser may represent a sub-tier supplier and not the cognizant engineering organization.

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Documents
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1. SCOPE

1.1 Form

This specification covers a blend of tungsten carbide-cobalt aggregate, a nickel alloy, and a nickel aluminum aggregate in the form of powder.

1.2 Application

This product has been used typically for producing plasma spray coatings to provide surfaces resistant to wear, corrosion, and abrasion, but usage is not limited to such applications.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply. The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, or www.astm.org.

ASTM B 214	Sieve Analysis of Granular Metal Powders
ASTM B 215	Sampling Finished Lots of Metal Powders
ASTM C 117	Material Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing