

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.  
 Certificate Number. 951001163

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Catalogue Number	010400
Lot Number	S10M003
Description	Tungsten powder, APS 1-5 micron, 99.9% (metals basis)
CAS Number	7440-33-7
Quality Test/Release Date	11/Jun/2026
Suggested retest date	11/Jun/2031
Country of Origin	United States

Result Name	Units	Specifications	Test Value
Density @20°C	g/cm <sup>3</sup>	(Tap) 5-7 g/cm <sup>3</sup>	6
Density @20°C	g/cm <sup>3</sup>	(Scott) 2-4 g/cm <sup>3</sup>	2-4
Particle Size	micron	(Fisher) 1-5 micron	3.2
Standard Weight	%	(O) <0.15%	0.10
Standard Weight	%	(Minimum weight O excluded) >99.9%	>=99.9

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Derek Roy  
 Quality Manager, LCD

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.