

Certificate of Analysis

IARM Fe155PH-18

Stainless Steel / AISI 15-5PH / UNS S15500
Certified Reference Material

Certified Values listed in wt.% with associated uncertainties

Al	0.014 ± 0.002	As	0.0026 ± 0.0009	B	0.0005 ± 0.0003	C	0.015 ± 0.001
Co	0.024 ± 0.003	Cr	15.13 ± 0.05	Cu	3.35 ± 0.03	Fe	75.03 ± 0.09
Mn	0.616 ± 0.007	Mo	0.129 ± 0.003	N	0.0494 ± 0.0007	Nb	0.273 ± 0.005
Ni	4.79 ± 0.02	O	0.0028 ± 0.0005	P	0.021 ± 0.002	S	0.0004 ± 0.0003
Si	0.430 ± 0.008	Sn	0.0021 ± 0.0005	V	0.055 ± 0.002	W	0.019 ± 0.001

Indicative Values listed in ppm

Bi (<10)	Ca (20)	Cd (<10)	H (1)	Mg (<10)	Pb (<50)	Sb (<70)
Se (<50)	Ta (<50)	Ti (<70)	Zn (<70)	Zr (<50)		

Description and Intended Use

This Certified Reference Material is covered under the scope of accreditation to ISO 17034 by LGC Standards - Manchester, NH. As an ISO 17034 certified reference material, appropriate use of this material will fulfill the certified reference material and traceability requirements for use in ISO 17025 certified laboratories. This CRM may come in the form of a solid disk, chips, or powder. The intended use of this CRM may include, but is not limited to, the calibration of instruments and the validation of analytical methods.

Instructions for Use

1. The test surface is on the opposite side of the labeled surface, which includes the material identification. The entire thickness of the unit is certified. However, the user is cautioned not to measure disks less than 2 mm thick when using X-ray fluorescence spectrometry. Each packaged disk has been prepared by finishing the test surface using a lathe. The user must determine the correct surface preparation procedure for each analytical technique. The user is cautioned to use care when either resurfacing the disk or performing additional polishing, as these processes may contaminate the surface.
2. The minimum sample size for chips should be individually evaluated based on the analytical technique used; this would typically be greater than 0.1 grams.
3. The material should be stored in a cool, dry location when not in use.
4. Chips are not recommended for gas analysis.

