Certificate of Analysis



Revision No.: 000

Revision Date: 01/23/2023

Product ID: IARM-FE2507-21

Certified Reference Material

Product Description: Stainless Steel, Duplex, Alloy 2507 / S32750

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 accredited laboratories. This CRM may come in the form of a solid disk, or chips. The intended use of this CRM may include, but is not limited to, the calibration of instruments and the validation of analytical methods.

			Certifie	d Values	s listed in w	rt.% with as	sociated	uncertainties			
As	0.004	±0.001	Cu	0.125	±0.004	Ni	7.12	±0.08	Sn	0.0034	± 0.0006
В	0.0024	±0.0004	Mn	0.85	±0.01	Р	0.024	±0.002	Ti	0.0019	± 0.0005
С	0.019	±0.001	Мо	3.76	±0.04	S	0.0005	±0.0001	V	0.067	± 0.002
Co	0.039	±0.002	Ν	0.27	±0.01	Sb	0.0015	±0.0005	W	0.026	± 0.003
Cr	25.2	±0.1	Nb	0.022	±0.002	Si	0.36	±0.02	Zr	0.0013	± 0.0007

Indicative Values listed in ppm

Al 51 Fe Balance O 48 Se 11 Ta 13

Homogeneity and Uncertainty: "Uncertainty" values, as reported adjacent to certified concentration values, are based on a 95% Confidence Interval. These estimated uncertainties include the combined effects of method imprecision, material inhomogeneity, and any bias between methods. Homogeneity data from experimental XRF results are reflected in both the overall statistics and certified data. Homogeneity samples are selected by a systematic sampling procedure. The number of samples may be determined by equation 1, where N_{prod} is the number of units produced and N_{min} is the number of samples used for homogeneity testing. These samples are arranged in a simple randomized design such that each sample is analyzed multiple times by XRF. Homogeneity may also be determined within sample using an applied version of ASTM E826. A single factor ANOVA is used to calculated uncertainty due to inhomogeneity (U_{hom}). Uncertainty of the material is calculated by equation 2, where H=U_{hom}, S= Standard deviation, t= t-value at 95% CI, and n= number of observations.

$$1.N_{MIN} = \max(10, \sqrt[3]{N_{PROD}})$$

2.
$$U_{CRM} = \frac{\sqrt{H^2 + S^2}}{\sqrt{n}} * t$$

Sheffield Assay Office - Sheffield, England

Certification Laboratories: Much of the analytical work performed to assess this material has been carried out by laboratories with proven competence, as indicated by their accreditation to ISO 17025. It is an implicit requirement for this accreditation that analytical work should be performed with due traceability, via an unbroken chain of comparisons, each with stated uncertainty, to primary standards such as the mole, or to nationally- or internationally-recognised reference materials. Of the individual results herein, some have traceability (to the mole) via primary analytical methods. Some are traceable to substances of known stoichiometry. Most have traceability via commercial solutions. Furthermore, some results have additional traceability to NIST standards, as part of the analytical calibration or process control.

- Applied Technical Services Marietta, GA
 Avon Specialty Metals Ltd Gloucester, England
 Dirats Laboratories Westfield, MA
 Laboratory Testing, Inc. Hatfield, PA
 Laboratory Testing, Inc. Hatfield, PA
 Laboratory Testing, Inc. Hatfield, PA
 Laboratory Services Cleveland, OH
 Scrooby's Laboratory Service Pty Ltd Benoni, South Africa
 SGS MSi Melrose Park, IL
- EAG Laboratories Liverpool, NY
- IMR Test Labs Lansing, NY
- Lucid Laboratories Hyderabad, India
- New Hampshire Materials Laboratory Inc Somersworth, NH
- Instructions for Use: 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. 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. The material should be stored in a cool, dry location when not in use.

Chips are not recommended for gas analysis.

Period of Validity: The certification of this material is valid indefinitely, within the uncertainty specified, provided the material is handled and stored in accordance with the instructions stated on this certificate. The certification is nullified if the material is damaged, contaminated, otherwise modified, or used in a manner for which it was not intended.

Chuck Goudreau, Certifying Officer

23 January 2023 Certification Date



ISO 17034 Accredited: Reference Materials Producer, Certificate # 2848.02 ISO/IEC 17025 Accredited: Chemical Testing, Certificate # 2848.01

Conditions of Sale and Supply: All CRMs & RMs sold are subject to applicable LGC Standard Terms and Conditions of Sale.



The following data represents all pertinent information reported as it applies to the chemical characterization of this material.

1 0.0005 0.0013 0.0013 0.0027 0.0187 6.134 0.7908 3.6400 0.2800 0.0180 6.803 3 0.0020 0.0074 0.0021 0.0170 0.0361 24.82 0.1200 62.12 0.8082 3.7600 0.2800 0.9198 6.963 4 0.0030 0.0024 0.0171 0.0370 24.97 0.1200 62.12 0.8082 3.7607 0.2860 0.9108 6.9992 6 0.0033 0.0042 0.0188 0.8080 0.813 3.7310 0.2700 0.0198 6.9992 7 0.0037 0.0060 0.0024 0.0188 0.0380 25.12 0.1246 0.8493 3.7310 0.2700 0.0210 7.0001 8 0.0038 0.0060 0.0024 0.0188 0.0380 25.22 0.1264 0.8493 3.7419 0.2700 0.0210 7.0001 10 0.0044 0.0020 0.0026 0.0180 0.0380 25.22 <th></th> <th>AI</th> <th>As</th> <th>В</th> <th>С</th> <th>Co</th> <th>Cr</th> <th>Cu</th> <th>Fe</th> <th>Mn</th> <th>Мо</th> <th>N</th> <th>Nb</th> <th>Ni</th>		AI	As	В	С	Co	Cr	Cu	Fe	Mn	Мо	N	Nb	Ni
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5 0.0044 0.0200 0.0005 0.0202 <0.0005 0.031 0.0026 0.0013 0.0659 0.0230 0.0017 6 0.0054 0.0226 0.0007 0.0020 <0.002	1 2	0 0.0023 0.0030	P 0.0140 0.0160	S 0.0002 0.0004	Sb 0.0006 0.0007	Se 0.000 0.001	1 0.2 3 0.3	Si 990 0. 157 0.	Sn .0018 .0023	Ta 0.0002 0.0008	Ti 0.0009 0.0010	V 0.0566 0.0590	W 0.0131 0.0160	Zr 0.0002 0.0004
6 0.0054 0.0226 0.0007 0.0020 <0.002 0.3303 0.0031 <0.00005 0.0014 0.0664 0.0230 0.0020 7 0.0056 0.0226 0.0007 0.0021 <0.002	1 2 3	0 0.0023 0.0030 0.0033	P 0.0140 0.0160 0.0190	S 0.0002 0.0004 0.0005	Sb 0.0006 0.0007 0.0010	Se 0.000 0.001 0.002	1 0.2 3 0.3 0 0.3	Si 1990 0. 157 0. 231 0.	Sn 0018 0023 0027	Ta 0.0002 0.0008 0.0009	Ti 0.0009 0.0010 0.0010	V 0.0566 0.0590 0.0650	W 0.0131 0.0160 0.0193	Zr 0.0002 0.0004 0.0012
7 0.0056 0.0226 0.0007 0.0021 <0.002 0.3315 0.0033 <0.0005 0.0020 0.0669 0.0230 0.0022 8 0.0077 0.0234 0.0007 0.0021 <0.002 0.3380 0.0035 <0.0010 0.0021 0.0669 0.0247 <0.0005 9 0.0083 0.0240 <0.0005 <0.0020 0.3460 0.0037 <0.002 0.0025 0.0670 0.0247 <0.0005 10 0.0241 <0.001 <0.0010 <0.0160 0.3519 0.0038 <0.002 0.0025 0.0670 0.0247 <0.0010 11 0.0242 <0.0010 <0.002 0.3540 0.0044 <0.005 0.0028 0.0686 0.0250 <0.002 12 0.0245 <0.002 <0.002 0.3680 0.0044 <0.0050 0.0028 0.0686 0.0250 <0.002 13 0.0245 <0.002 <0.0050 <0.3700 <0.011 <0.0030 0.0693 0.0255	1 2 3 4	0 0.0023 0.0030 0.0033 0.0035	P 0.0140 0.0160 0.0190 0.0200	S 0.0002 0.0004 0.0005 0.0005	Sb 0.0006 0.0007 0.0010 0.0017	Se 0.000 0.001 0.002 <0.000	1 0.2 3 0.3 0 0.3 05 0.3	Si 990 0. 157 0. 231 0. 232 0.	Sn 0018 0023 0027 0030	Ta 0.0002 0.0008 0.0009 0.0022	Ti 0.0009 0.0010 0.0010 0.0013	V 0.0566 0.0590 0.0650 0.0653	W 0.0131 0.0160 0.0193 0.0220	Zr 0.0002 0.0004 0.0012 0.0015
8 0.0077 0.0234 0.0007 0.0021 <0.002 0.3380 0.0035 <0.0010 0.0021 0.0669 0.0247 <0.0005 9 0.0083 0.0240 <0.0005	1 2 3 4 5	0 0.0023 0.0030 0.0033 0.0035 0.0044	P 0.0140 0.0160 0.0190 0.0200 0.0200	S 0.0002 0.0004 0.0005 0.0005 0.0005	Sb 0.0006 0.0007 0.0010 0.0017 0.0020	Se 0.000 0.001 0.002 <0.000 <0.000	1 0.2 3 0.3 0 0.3 05 0.3 05 0.3	Si 990 0. 157 0. 231 0. 232 0. 240 0.	Sn 0018 0023 0027 0030 0031	Ta 0.0002 0.0008 0.0009 0.0022 0.0026	Ti 0.0009 0.0010 0.0010 0.0013 0.0013	V 0.0566 0.0590 0.0650 0.0653 0.0659	W 0.0131 0.0160 0.0193 0.0220 0.0230	Zr 0.0002 0.0004 0.0012 0.0015 0.0017
9 0.0083 0.0240 <0.0005 <0.0008 <0.0020 0.3460 0.0037 <0.002 0.0025 0.0670 0.0247 <0.0005 10 0.0241 <0.001	1 2 3 4 5 6	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054	P 0.0140 0.0160 0.0190 0.0200 0.0200 0.0226	S 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0020	Se 0.000 0.001 0.002 <0.000	1 0.2 3 0.3 0 0.3 05 0.3 15 0.3 2 0.3	Si 990 0. 157 0. 231 0. 232 0. 232 0. 240 0. 303 0.	Sn 0018 0023 0027 0030 0031	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.00005	Ti 0.0009 0.0010 0.0010 0.0013 0.0013 0.0014	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020
10 0.0241 <0.001 <0.016 0.3519 0.0038 <0.002 0.0670 0.0247 <0.0010 11 0.0242 <0.0010	1 2 3 4 5 6 7	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056	P 0.0140 0.0160 0.0190 0.0200 0.0200 0.0226 0.0226	S 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0020 0.0021	Se 0.000 0.001 0.002 <0.000	1 0.2 3 0.3 0 0.3 05 0.3 2 0.3 2 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 303 0. 303 0. 315 0.	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.00005	Ti 0.0009 0.0010 0.0010 0.0013 0.0013 0.0014 0.0020	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022
11 0.0242 <0.0010 <0.002 0.3540 0.0044 <0.005 0.0026 0.0674 0.0250 <0.002 12 0.0245 <0.0010	1 2 3 4 5 6 7 8	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0190 0.0200 0.0200 0.0226 0.0226 0.0224	S 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 0.0007	Sb 0.0006 0.0010 0.0017 0.0020 0.0020 0.0021 0.0021	Se 0.000 0.001 0.002 <0.000	1 0.2 3 0.3 0 0.3 05 0.3 15 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3	Si 9990 0. 157 0. 231 0. 232 0. 232 0. 240 0. 303 0. 315 0. 3380 0.	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.00005	Ti 0.0009 0.0010 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0669	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0230 0.0230 0.0247	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.00005
12 0.0245 <0.0010 <0.002 0.3680 0.0046 <0.0050 0.0028 0.0686 0.0250 <0.002 13 0.0245 <0.002	1 2 3 4 5 6 7 8 9	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0190 0.0200 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240	S 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0005	Sb 0.0006 0.0017 0.0020 0.0020 0.0021 0.0021 0.0021	Se 0.000 0.001 0.002 <0.000	1 0.2 3 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3	Si 9990 0. 157 0. 231 0. 232 0. 232 0. 240 0. 303 0. 315 0. 3380 0. 3460 0. 0. 0.	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.00005	Ti 0.0009 0.0010 0.0013 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0669 0.0669	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0230 0.0247	Zr 0.0002 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005
13 0.0245 <0.002 <0.002 0.3700 0.0051 <0.01 0.0030 0.0690 0.0259 <0.002 14 0.0256 <0.002	1 2 3 4 5 6 7 8 9 10	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0200 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240 0.0241	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0005 <0.001	Sb 0.0006 0.0010 0.0017 0.0020 0.0020 0.0021 0.0021 0.0021 <0.0008	Se 0.000 0.001 0.002 <0.000	1 0.2 3 0.3 005 0.3 055 0.3 052 0.3 053	Si 990 0. 157 0. 231 0. 231 0. 232 0. 240 0. 303 0. 315 0. 315 0. 380 0. 460 0. 519 0. 0. 0.	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0025	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0669 0.0669 0.0670	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0247	Zr 0.0002 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005
14 0.0256 <0.002 <0.005 0.3790 <0.0500 <0.01 <0.0005 0.0693 0.0265 <0.005 15 0.0260 <0.0050	1 2 3 4 5 6 7 8 9 10 11	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0200 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240 0.0241 0.0242	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0005 <0.001 <0.0010	Sb 0.0006 0.0010 0.0017 0.0020 0.0020 0.0021 0.0021 0.0022 0.0021 0.0022 0.0021 0.0021	Se 0.000 0.001 0.002 <0.000	\$ 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 3 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 303 0. 315 0. 3315 0. 380 0. 460 0. 519 0. 540 0. 540 0.	Sn 0018 0023 0027 0030 0031 0031 0033 0035 0037 0038 0044	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0025 0.0025	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0669 0.0669 0.0670 0.0670 0.0674	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0247 0.0247	Zr 0.0002 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005
15 0.0260 <0.0050 0.3810 <0.01 <0.027 <0.002 0.0700 0.0270 <0.005 16 0.0260 <0.01	1 2 3 4 5 6 7 8 9 10 11 12	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0200 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240 0.0241 0.0242 0.0245	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010	Sb 0.0006 0.0010 0.0017 0.0020 0.0020 0.0021 0.0021 0.0022 0.0021 0.0022 0.0021 0.0022 <0.0022	Se 0.000 0.001 0.002 <0.000	\$ 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 303 0. 3315 0. 3380 0. 460 0. 519 0. 540 0. 680 0.	Sn 0018 0023 0027 0030 0031 0031 0033 0035 0037 0038 0044	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0669 0.0669 0.0670 0.0670 0.0674 0.0686	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0247 0.0247 0.0250	Zr 0.0002 0.0012 0.0015 0.0017 0.0022 <0.0005
16 0.0260 <0.01 0.3812 <0.01 <0.002 0.0700 0.0305 <0.01 17 0.0260 <0.01	1 2 3 4 5 6 7 8 9 10 11 12 13	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0200 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240 0.0241 0.0242 0.0245 0.0245	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0010 0.0017 0.0020 0.0020 0.0021 0.0021 0.0021 0.0022 0.0021 0.0022 <0.0022	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 6 0.3 0.3 0.3 0.3 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 303 0. 315 0. 380 0. 460 0. 519 0. 540 0. 680 0. 700 0.	Sn 0018 0023 0027 0030 0031 0031 0033 0035 0037 0038 0044 0046 0051	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0669 0.0670 0.0670 0.0674 0.0686 0.0690	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0247 0.0247 0.0250 0.0250 0.0250	Zr 0.0002 0.0012 0.0015 0.0017 0.0022 <0.0005
17 0.0260 <0.01 0.3930 <0.022 0.0700 0.0320 <0.01 18 0.0266 0 0.3970 <0.005	1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0200 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240 0.0241 0.0242 0.0245 0.0245 0.0256	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0010 0.0017 0.0020 0.0021 0.0021 0.0022 <0.0002	Se 0.000 0.001 0.002 <0.000	8 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 303 0. 315 0. 380 0. 460 0. 519 0. 540 0. 680 0. 700 0. 790 <0	Sn 0018 0023 0027 0030 0031 0031 0033 0035 0037 0038 0044 0046 0051 0.0050 0050	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028 0.0030	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0669 0.0670 0.0670 0.0674 0.0686 0.0690 0.0693	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0247 0.0250 0.0250 0.0250 0.0250 0.0259	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.00005 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0015 <0.0015 <0.0017 <0.0025 <0.0005 <0.0015 <0.0017 <0.0025 <0.0005 <0.0015 <0.0015 <0.0005 <0.0005 <0.0015 <0.0015 <0.0005 <0.0005 <0.0015 <0.0015 <0.0005 <0.0005 <0.0020 <0.0025 <0.0005 <0.0015 <0.0015 <0.0015 <0.0005 <0.0005 <0.0015 <0.0015 <0.0015 <0.0005 <0.0005 <0.0005 <0.0022 <0.0005 <0.0022 <0.0005 <0.0022 <0.0005 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0022 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <0.0055 <
18 0.0266 0.3970 <0.005 0.0740 0.0330 19 0.0285 0.4000 <0.01	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0190 0.0200 0.0226 0.0226 0.0234 0.0240 0.0241 0.0242 0.0245 0.0245 0.0245 0.0256 0.0260	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0021 0.0021 0.0022 <0.0002	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 240 0. 303 0. 303 0. 315 0. 380 0. 460 0. 519 0. 680 0. 790 <0	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028 0.0030 <0.0025	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0670 0.0670 0.0674 0.0686 0.0690 0.0693 0.0700	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0010 <0.002 <0.0015 <0.0017 <0.002 <0.0005 <0.0015 <0.0017 <0.0025 <0.0005 <0.0015 <0.0015 <0.0017 <0.0025 <0.0005 <0.0010 <0.0025 <0.0005 <0.0010 <0.002 <0.0005 <0.0005 <0.002 <0.002 <0.002 <0.002 <0.0005 <0.002 <0.002 <0.002 <0.0005 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0
19 0.0285 0.0400 <0.01 0.0335 20 0.0295 0.4156 0.0370 21 0.0326 0.4159 0.0379 22 0.0283 0.0015 0.011 0.3619 0.0013 0.0019 0.0669 0.0260 0.0013 Mean 0.0021 0.0043 0.0002 0.0015 0.011 0.3619 0.0013 0.0019 0.0669 0.0260 0.0013 STDV 0.0021 0.0043 0.0002 0.0016 0.0010 0.0365 0.0009 0.0010 0.0088 0.0040 0.0663 0.0008 Certified (0.0048) 0.024 0.0005 0.0011 0.366 0.0034 (0.0013) 0.0019 0.067 0.026 0.0013 U _{CRM} 0.002 0.0001 0.005 0.022 0.0006 0.0005 0.002 0.003 0.0007	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0200 0.0200 0.0226 0.0226 0.0234 0.0240 0.0241 0.0242 0.0245 0.0245 0.0245 0.0245 0.0260	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0020 0.0021 0.0022 <0.0021	Se 0.000 0.001 0.002 <0.000	3 0.3 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 6 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 230 0. 232 0. 240 0. 303 0. 303 0. 315 0. 380 0. 460 0. 519 0. 540 0. 680 0. 0. 790 <0	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028 0.0028 0.0028 <0.0027	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0664 0.0669 0.0670 0.0670 0.0670 0.0674 0.0686 0.0690 0.0693 0.0700 0.0700	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0015 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0005 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.
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21 0.0326 0.04159 0.011 0.04159 0.001 0.0379 22 0.0048 0.0238 0.0005 0.0011 0.3619 0.0034 0.0013 0.0019 0.0669 0.0260 0.0013 STDV 0.0021 0.0043 0.0002 0.0006 0.0010 0.0365 0.0009 0.0010 0.0088 0.0040 0.0063 0.0008 Certified (0.0048) 0.024 0.0005 0.0015 (0.011) 0.36 0.0034 (0.0013) 0.0019 0.0667 0.026 0.0013 U _{CRM} 0.002 0.0001 0.0055 0.002 0.0005 0.002 0.0005 0.0007	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0200 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240 0.0241 0.0241 0.0242 0.0245 0.0245 0.0260 0.0260 0.0260 0.0260 0.0266	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0020 0.0021 0.0022 <0.0021	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 230 0. 315 0. 315 0. 380 0. 460 0. 519 0. 540 0. 0. 700 700 0. 0. 790 <	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028 0.0005 <0.002	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0669 0.0669 0.0670 0.0670 0.0674 0.0686 0.0690 0.0693 0.0700 0.0700 0.0700	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0247 0.0247 0.0247 0.0247 0.0250 0.0250 0.0250 0.0255 0.0265 0.0270 0.0305 0.0320	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0015 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0005 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.
22	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0190 0.0200 0.0226 0.0226 0.0226 0.0234 0.0240 0.0241 0.0241 0.0242 0.0245 0.0245 0.0256 0.0260 0.0260 0.0260 0.0266 0.0266 0.0285	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0020 0.0021 0.0022 <0.0021	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 240 0. 303 0. 315 0. 380 0. 380 0. 0. 519 0. 540 0. 0. 700 0. 790 <0	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028 0.0005 <0.002	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0669 0.0669 0.0670 0.0670 0.0674 0.0686 0.0690 0.0693 0.0700 0.0700 0.0700	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0247 0.0247 0.0247 0.0247 0.0250 0.0250 0.0250 0.0255 0.0270 0.0305 0.0320 0.0330 0.0335	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0015 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0005 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.
Mean 0.0048 0.0238 0.0005 0.0015 0.0011 0.3619 0.0034 0.0013 0.0019 0.0669 0.0260 0.0013 STDV 0.0021 0.0043 0.0002 0.0006 0.0010 0.0365 0.0009 0.0010 0.0008 0.0040 0.0063 0.0008 Certified 0.0048 0.024 0.0005 0.0015 (0.0011) 0.36 0.0034 (0.0013) 0.0019 0.067 0.026 0.0013 U_{CRM} 0.002 0.0001 0.0055 0.02 0.0006 0.0005 0.002 0.0007	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0190 0.0200 0.0226 0.0226 0.0226 0.0234 0.0241 0.0242 0.0245 0.0245 0.0245 0.0256 0.0260 0.0260 0.0260 0.0266 0.0265 0.0285 0.0295	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0020 0.0021 0.0022 <0.0021	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.4 0.4	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 240 0. 303 0. 315 0. 380 0. 380 0. 0. 519 0. 540 0. 0. 700 0. 790 <0.	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028 0.0005 <0.002	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0669 0.0669 0.0670 0.0670 0.0674 0.0686 0.0690 0.0693 0.0700 0.0700 0.0700	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0250 0.0255 0.0270 0.0305 0.0330 0.0335 0.0335	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0015 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0005 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.
STDV 0.0021 0.0043 0.0002 0.006 0.0010 0.0365 0.0009 0.0010 0.0008 0.0040 0.0063 0.0008 Certified (0.0048) 0.024 0.0005 0.0015 (0.0011) 0.36 0.0034 (0.0013) 0.0019 0.067 0.026 0.0013 U_{CRM} 0.002 0.0011 0.005 0.02 0.002 0.0005 0.002 0.003 0.0007	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077	P 0.0140 0.0160 0.0190 0.0200 0.0226 0.0226 0.0226 0.0234 0.0241 0.0242 0.0245 0.0245 0.0245 0.0256 0.0260 0.0260 0.0260 0.0266 0.0265 0.0285 0.0295	\$ 0.0002 0.0004 0.0005 0.0005 0.0005 0.0007 0.0007 <0.0007 <0.0007 <0.0005 <0.001 <0.0010 <0.0010 <0.002	Sb 0.0006 0.0007 0.0010 0.0017 0.0020 0.0020 0.0021 0.0022 <0.0021	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 230 0. 315 0. 315 0. 380 0. 460 0. 519 0. 540 0. 680 0. 700 0. 790 <0	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0028 0.0020 <0.0025	V 0.0566 0.0590 0.0650 0.0653 0.0659 0.0669 0.0669 0.0670 0.0670 0.0670 0.0674 0.0686 0.0690 0.0693 0.0700 0.0700 0.0700	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0250 0.0255 0.0270 0.0305 0.0330 0.0335 0.0335	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0015 <0.0015 <0.0015 <0.0017 <0.0020 <0.0005 <0.0005 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.
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Certified (0.0048) 0.024 0.0005 0.0015 (0.0011) 0.36 0.0034 (0.0013) 0.0019 0.067 0.026 0.0013 U_{CRM} 0.002 0.0001 0.0005 0.02 0.0006 0.0005 0.002 0.0003 0.0007	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0054 0.0056 0.0077 0.0083	P 0.0140 0.0160 0.0190 0.0200 0.0226 0.0226 0.0226 0.0234 0.0241 0.0242 0.0245 0.0245 0.0245 0.0256 0.0260 0.0260 0.0260 0.0260 0.0265 0.0265 0.0285 0.0295 0.0326	S 0.0002 0.0004 0.0005 0.0005 0.0007 0.0007 0.0007 0.0007 <0.0017	Sb 0.0006 0.0007 0.0010 0.0020 0.0021 0.0021 0.0021 0.0022 0.0021 <0.0022	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 230 0. 315 0. 315 0. 380 0. 380 0. 0. 519 0. 540 0. 0. 700 0. 790 <00	Sn 0018 0023 0027 0030 0031 0031 0035 0037 0038 0044 0046 0.0051 0.0050 0.01 0.01	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.00005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0027 0.0028 0.0005 <0.002	V 0.0566 0.0590 0.0653 0.0659 0.0669 0.0669 0.0669 0.0670 0.0670 0.0674 0.0686 0.0690 0.0690 0.0693 0.0700 0.0700 0.0700 0.0740	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0250 0.0255 0.0270 0.0305 0.0320 0.0330 0.0335 0.0370 0.0379	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0005 <0.0002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.001 <0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001
U _{CRM} 0.002 0.0001 0.0005 0.02 0.0006 0.0005 0.002 0.003 0.0007	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 Mean	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0056 0.0077 0.0083 0.0085 0.0085 0.0085 0.0097 0.0083 0.0095 0.0	P 0.0140 0.0160 0.0190 0.0200 0.0226 0.0226 0.0226 0.0234 0.0241 0.0242 0.0245 0.0245 0.0245 0.0256 0.0260 0.0260 0.0260 0.0260 0.0266 0.0265 0.0265 0.0225 0.0326 0.0238	S 0.0002 0.0004 0.0005 0.0005 0.0007 0.0007 0.0007 0.0007 0.0007 0.0007 0.0007 <0.0010	Sb 0.0006 0.0007 0.0010 0.0020 0.0021 0.0021 0.0021 0.0022 0.0021 <0.0022	Se 0.000 0.001 0.002 <0.000	S 1 0.2 3 0.3 0 0.3 0 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 230 0. 315 0. 315 0. 380 0. 3460 0. 519 0. 540 0. 680 0. 7700 0. 790 <0	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.0005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0026 0.0027 0.0028 0.0026 0.0027 <0.002	V 0.0566 0.0590 0.0653 0.0659 0.0669 0.0669 0.0669 0.0670 0.0670 0.0670 0.0670 0.0674 0.0680 0.0693 0.0700 0.0700 0.0700 0.0740 0.0740 0.0740 0.0740	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0259 0.0265 0.0270 0.0305 0.0305 0.0330 0.0330 0.0370 0.0370 0.0370	Zr 0.0002 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 15 16 17 18 19 20 21 22 Mean STDV	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0056 0.0077 0.0083 0.0084 0.0021 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0084 0.0021 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0084 0.0021 0.0083 0.0	P 0.0140 0.0160 0.0190 0.0200 0.0200 0.0226 0.0226 0.0224 0.0241 0.0242 0.0245 0.0245 0.0245 0.0256 0.0260 0.0260 0.0260 0.0266 0.0285 0.0295 0.0326 0.0238 0.0043	S 0.0002 0.0004 0.0005 0.0005 0.0007 0.0007 0.0007 0.0007 0.0007 0.0007 0.0007 <0.0010	Sb 0.0006 0.0010 0.0017 0.0020 0.0021 0.0021 0.0021 0.0021 0.0021 0.0021 0.0021 <0.0021	Se 0.000 0.001 0.002 <0.000 <0.000 <0.000 <0.000 0.001 0 0 0 0 0.001 0.001 0.001	S 1 0.2 3 0.3 005 0.3 055 0.3 2 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 230 0. 303 0. 315 0. 380 0. 3460 0. 519 0. 540 0. 680 0. 700 0. 790 <0	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.0005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0027 0.0028 0.0026 0.0027 0.0028 0.0020 <0.002	V 0.0566 0.0590 0.0653 0.0659 0.0669 0.0669 0.0669 0.0670 0.0670 0.0670 0.0674 0.0686 0.0693 0.0700 0.0700 0.0700 0.0700 0.0700 0.0700 0.0740 0.0740 0.0740 0.0669 0.0669 0.0069	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0255 0.0265 0.0270 0.0305 0.0330 0.0330 0.03370 0.0370 0.0379 0.0260	Zr 0.0002 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005
Methods F IM,I,O,X C,O IM,I,O,X O,IM,I,X IM,I,O,X IM,I,O,X IM,I,O,X IM,I,O,X IM,I,O,X IM,O,I,X IM,I,O,X IM,I,O,X	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 15 16 17 18 19 20 21 22 Mean STDV Certified	0 0.0023 0.0030 0.0033 0.0035 0.0044 0.0056 0.0077 0.0083 0.0084 0.0021 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0084 0.0021 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0083 0.0084 0.0021 0.0083 0.0	P 0.0140 0.0160 0.0190 0.0200 0.0200 0.0226 0.0226 0.0224 0.0241 0.0242 0.0245 0.0245 0.0245 0.0245 0.0256 0.0260 0.0260 0.0260 0.0266 0.0265 0.0265 0.0225 0.0225 0.0326 0.0228 0.0238 0.0043 0.024	S 0.0002 0.0004 0.0005 0.0005 0.0007 0.0007 0.0007 0.0007 0.0007 0.0007 0.0007 <0.0010	Sb 0.0006 0.0010 0.0017 0.0020 0.0021 0.0021 0.0021 0.0021 0.0021 0.0021 0.0021 <0.0021	Se 0.000 0.001 0.002 <0.000 <0.000 <0.000 <0.000 0.001 0 0 0 0 0 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.000 0.002 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0	S 1 0.2 3 0.3 05 0.3 05 0.3 05 0.3 2 0.3 2 0.3 2 0.3 2 0.3 0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Si 990 0. 157 0. 231 0. 231 0. 232 0. 232 0. 232 0. 230 0. 303 0. 315 0. 380 0. 460 0. 519 0. 540 0. 680 0. 700 0. 790 <0	Sn	Ta 0.0002 0.0008 0.0009 0.0022 0.0026 0.0005 <0.0005	Ti 0.0009 0.0010 0.0013 0.0013 0.0014 0.0020 0.0021 0.0025 0.0026 0.0027 0.0028 0.0026 0.0027 0.0028 0.0026 0.0027 <0.002	V 0.0566 0.0590 0.0653 0.0659 0.0669 0.0669 0.0669 0.0670 0.0670 0.0670 0.0670 0.0670 0.0670 0.0690 0.0693 0.0700 0.0700 0.0700 0.0700 0.0700 0.0740 0.0740 0.0669 0.00700 0.0740 0.0700 0.0700 0.0700 0.0700 0.0740 0.0740 0.0740 0.0740 0.0740 0.0740 0.0740 0.0740 0.00700 0.0740 0.00700 0.0740 0.00700 0.00700 0.00700 0.0740 0.007000 0.007000 0.007000 0.00700 0.0070000000000	W 0.0131 0.0160 0.0193 0.0220 0.0230 0.0230 0.0230 0.0247 0.0247 0.0250 0.0250 0.0250 0.0265 0.0270 0.0305 0.0330 0.0330 0.03370 0.0379 0.0260 0.0260 0.0260	Zr 0.0002 0.0004 0.0012 0.0015 0.0017 0.0020 0.0022 <0.0005 <0.0010 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.005 <0.01 <0.01 <0.01 <0.01

Legend: W = Classical, C = Combustion, F = Fusion, A = AA or GFAA, I = ICP or DCP, IM=ICP-MS, D = DC Arc, O = AES, X = XRF, G = GDAES or GDMS, H = Hollow Cathode AES

