

Measurement Uncertainty & Reporting Range Values for Chemical Analysis and Materials Testing Decision Rules

Measurement Uncertainty Values

Site	Accreditation	C	Mn	Si	S	P	Cu	V	Cr	Ni	Sn	Mo	Al	Nb	Ti	B	N	Ca
Bureau Vertias Minerals - Whyalla	626	0.006	0.008	0.006	0.001	0.001	0.001	0.002	0.060	0.002	0.001	0.004	0.058	0.001	0.0010	0.0001	0.005	0.0003

+/- percentage of elements by mass

Reporting Range Values

Site	Element	C	Mn	Si	S	P	Cu	V	Cr	Ni	Sn	Mo	Al	Nb	Ti	B	N	Ca
Bureau Vertias Minerals - Whyalla Accreditation: 626	Low Reporting Limit (%)	0.01	0.01	0.01	0.001	0.001	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.001	0.001	0.0001	0.001	0.0001
	High Reporting Limit (%)	1.40	2.00	2.20	0.40	0.10	0.60	1.00	1.50	1.50	0.15	0.80	0.15	0.300	0.250	0.0100	0.030	0.005

Percentage of elements by mass

NOTE: Elements reported at the lower reporting limit may be analysed at these limits or lower. Effect of MU should also be considered.

Material Testing Decision Rules

Material testing requirements and specified ranges, for components of interest, are well defined in standard product descriptions or determined prior to order acceptance. Industry standards and specifications have been developed over extended time periods and measurement uncertainty is deemed to give no additional material performance risk.

Where compliance to a specification is stated - a simple acceptance rule is applied, i.e. If the test result is within the range specified in the referenced specification or standard, then the result is considered to be compliant. No additional allowance for measurement uncertainty is considered.

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