



# BERYLLIUM PURITY

## Materion Electrofusion Beryllium Purity Specifications

Beryllium Purity Specifications Chart

Material	Symbol	IF-1®	PF-60®	PS-200®	IS-50M®
Beryllium	Be	99.8%	99.0%	98.5%	99.0%
		ppm	ppm	ppm	ppm
Aluminum	Al	100	500	1,000	900
Beryllium Oxide	BeO	600	8,000	15,000	5,000
Boron	B	–	3	†	–
Cadmium	Cd	–	2	†	–
Calcium	Ca	200	100	†	200
Carbon	C	300	600	1,500	1,000
Chromium	Cr	35	100	†	400
Cobalt	Co	5	10	†	10
Copper	Cu	50	100	†	100
Iron	Fe	300	800	1,300	1,500
Lead	Pb	5	20	†	20
Lithium	Li	–	3	†	–
Magnesium	Mg	60	490	800	800
Manganese	Mn	30	100	†	200
Molybdenum	Mo	10	20	†	20
Nickel	Ni	200	200	†	500
Silicon	Si	100	400	600	600
Silver	Ag	5	10	†	5
Thorium	Th	< 3*	< 2*	–	–
Titanium	Ti	10	–	†	–
Uranium	U	< 2*	25-140*	–	–
Zinc	Zn	100	–	†	200

\* Not specified—Value determined by lot test.  
† Other metallic impurities comprise less than 400ppm each as determined by normal spectrographic methods.

*Health & Safety Note:*

Handling solid beryllium material poses no significant health risks. However, as with many other industrial materials—materials containing beryllium may pose a health risk, if and when recommended safe handling practices are not followed and adhered to. Inhalation of airborne beryllium may cause a serious lung disorder in susceptible individuals. The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational respiratory exposures. Read and follow the guidance set forth in the Material Safety Data Sheet (MSDS) before working with beryllium. For additional information on safe handling practices or technical data on beryllium, contact Materion Electrofusion.

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