

Indium Corp. Germanium Corporation® Germanium Metal

Category : Pure Element

Material Notes:

Germanium is a hard, brittle, grayish white element. It is transparent to infrared light, which makes it useful for optical materials. It is widely used as a semiconductor and an alloying agent. Silicon-germanium alloys are used to manufacture low-cost and high-speed integrated circuits, germanium dioxide is used as a polymerization catalyst, and germanium tetrachloride is used as a dopant in fiber optic systems. Purity: 99.999% Information provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Germanium-Corporation-Germanium-Metal.php

Physical Properties	Metric	English	Comments
Specific Gravity	5.323 g/cc	5.323 g/cc	
	@ Temperature 20.0 Â°C	@ Temperature 68.0 Â°F	
Molecular Weight	72.61 g/mol	72.61 g/mol	

Thermal Properties	Metric	English	Comments
Heat of Fusion	508.2 J/g	218.6 BTU/lb	
Heat of Vaporization	4600 J/g	1980 BTU/lb	
Specific Heat Capacity	0.320 J/g-Â°C	0.0765 BTU/lb-Â°F	
Melting Point	937.4 Â°C	1719 Â°F	
Boiling Point	2830 Â°C	5130 Â°F	

Optical Properties	Metric	English	Comments
IR Transmittance	90 %	90 %	transparent; thickness not quantified

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 0.000010 %	<= 0.000010 %	Typical
	<= 0.00010 %	<= 0.00010 %	Max
Antimony, Sb	<= 0.000010 %	<= 0.000010 %	Typical
	<= 0.00010 %	<= 0.00010 %	Max
Chromium, Cr	<= 0.000010 %	<= 0.000010 %	Typical
	<= 0.00010 %	<= 0.00010 %	Max

Cobalt, Co Component Elements Properties	Metric ≤ 0.000010 %	English ≤ 0.000010 %	Typical Comments
	≤ 0.00010 %	≤ 0.00010 %	Max
Copper, Cu	≤ 0.000010 %	≤ 0.000010 %	Typical
	≤ 0.00010 %	≤ 0.00010 %	Max
Germanium, Ge	99.999 %	99.999 %	
Iron, Fe	≤ 0.000010 %	≤ 0.000010 %	Typical
	≤ 0.00010 %	≤ 0.00010 %	Max
Magnesium, Mg	≤ 0.000010 %	≤ 0.000010 %	Typical
	≤ 0.00010 %	≤ 0.00010 %	Max
Nickel, Ni	≤ 0.000010 %	≤ 0.000010 %	Typical
	≤ 0.00010 %	≤ 0.00010 %	Max
Selenium, Se	≤ 0.000010 %	≤ 0.000010 %	Typical
	≤ 0.00010 %	≤ 0.00010 %	Max
Titanium, Ti	≤ 0.000010 %	≤ 0.000010 %	Typical
	≤ 0.00010 %	≤ 0.00010 %	Max
Trace Metals	≤ 0.00010 %	≤ 0.00010 %	Total combined metals, typical
	≤ 0.0010 %	≤ 0.0010 %	Total combined metals, max
Zinc, Zn	≤ 0.000010 %	≤ 0.000010 %	Typical
	≤ 0.00010 %	≤ 0.00010 %	Max

Electrical Properties	Metric	English	Comments
Electrical Resistivity	≥ 40.0 ohm-cm	≥ 40.0 ohm-cm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China