

# Heeger Materials Inc

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## PRODUCT TEST CERTIFICATE

Product Name	Spherical Chromium Powder	Type	15-53 $\mu$ m		
Lot No.	20220715-Cr	Quantity	50 Kg		
<b>Chemical Composition</b>					
Element	Value (%)	Test Method	Element	Value (%)	Test Method
Cr	$\geq 99.9$	—	As	<0.001	ICP-AES
Fe	<0.01	ICP-AES	Ti	<0.001	ICP-AES
Si	<0.008	ICP-AES	W	<0.001	ICP-AES
Al	<0.006	ICP-AES	Ni	<0.001	ICP-AES
Cu	<0.001	ICP-AES	Sn	<0.001	ICP-AES
Pb	<0.001	ICP-AES	Bi	<0.001	ICP-AES
<b>Gas Impurities</b>					
Element	Value (%)		Element	Value (%)	
C	0.0031		O	0.021	
<b>Density</b>			<b>Hall Flow Rate</b>		
Apparent Density (g/cm <sup>3</sup> )	Tap Density (g/cm <sup>3</sup> )		Value(s/50g)		
4.25	5.44		16.0		
SEM					