



## Certificate of analysis

**Reference #: ND4938 – lot # 07170**

Product name	<b>Neodymium(III) chloride anhydrous, 99.9%</b>				
Product code	<b>ND4938</b>	CAS#	<b>10024-93-8</b>	Purity	<b>99.9% (by emission spectroscopy)</b>
Lot/batch #	<b>07170</b>	Net Weight/volume	<b>300kg</b>	Country of origin	<b>USA</b>

<b>Analytical results</b>								
Titration	<b>% Nd = 57.69%</b>							
Purity	<b>99.9%</b>							
ICP	<b>99.9% (metals basis)</b>							
Impurity weight, ppm:	<b>Ag</b>	<b>ND</b>	<b>Co</b>	<b>ND</b>	<b>Mo</b>	<b>ND</b>	<b>Sr</b>	<b>ND</b>
	<b>Al</b>	<b>18.2</b>	<b>Cr</b>	<b>0.55</b>	<b>Na</b>	<b>55</b>	<b>Ti</b>	<b>ND</b>
	<b>As</b>	<b>&lt; 1</b>	<b>Cu</b>	<b>ND</b>	<b>Ni</b>	<b>&lt;1</b>	<b>V</b>	<b>ND</b>
	<b>Ba</b>	<b>&lt;2</b>	<b>Fe</b>	<b>8.8</b>	<b>Pb</b>	<b>ND</b>	<b>Zn</b>	<b>110</b>
	<b>Be</b>	<b>ND</b>	<b>K</b>	<b>&lt;10</b>	<b>Sb</b>	<b>ND</b>	<b>Zr</b>	<b>ND</b>
	<b>Bi</b>	<b>ND</b>	<b>Li</b>	<b>ND</b>	<b>Se</b>	<b>ND</b>	%Nd = 57.69%; ND = not detected w / 0.2 ppm limit; Water=0.697%	
	<b>Ca</b>	<b>34.91</b>	<b>Mg</b>	<b>4.26</b>	<b>Si</b>	<b>10.25</b>		
	<b>Cd</b>	<b>ND</b>	<b>Mn</b>	<b>0.33</b>	<b>SN</b>	<b>ND</b>		
Analysis date	<b>7/17/2020</b>							

**Re-test/Shelf Life:** This material when kept in original sealed container should be retested after 12 months to ensure quality.