



## **Material Specifications**

## Nitric Acid – Ultrapure

Grade - 2

Product Code	N32	N32		
Parameters	Units	Specifications	Test Method	
Assay	% w/w	67-70	Acid Base Titration	
Color	APHA	<= 10		
ROI (as SO <sub>4</sub> )	ppm	<=2	ACS	
Chloride	ppb	<=50	ACS	
Phosphate (PO <sub>4</sub> )	ppb	<=10	ACS	
Sulfate (SO <sub>4</sub> )	ppb	<=200	ACS	
Aluminium - Al	ppb	<=5	By ICP-MS	
Anitmony - Sb	ppb ppb	<= 0.5	By ICP-MS	
Arsenic - As	ppb ppb	<= 0.5	By ICP-MS	
Barium - Ba	ppb ppb	<= 0.5	By ICP-MS	
Beryllium - Be	ppb	<= 0.5	By ICP-MS	
Bismuth - Bi	ppb	<= 0.5	By ICP-MS	
Cadmium - Cd	ppb	<= 0.5	By ICP-MS	
Calcium - Ca	ppb	<=2	By ICP-MS	
Chromium - Cr	ppb	<=1	By ICP-MS	
Cobalt - Co	ppb	<=0.5	By ICP-MS	
Copper - Cu	ppb	<=0.5	By ICP-MS	
Gallium - Ga	ppb	<=0.1	By ICP-MS	
Germanium - Ge	ppb	<=0.1	By ICP-MS	
Gold - Au	ppb	<=0.1	By ICP-MS	
Indium - In	ppb	<=0.5	By ICP-MS	
Iron - Fe	ppb	<=2	By ICP-MS	
Lead - Pb	ppb	<=2	By ICP-MS	
Lithium - Li	ppb	<=0.5	By ICP-MS	
Magnesium - Mg	ppb	<=1	By ICP-MS	
Manganese - Mn	ppb	<=0.5	By ICP-MS	
Mercury - Hg	ppb	<=1	By ICP-MS	
Molybdenum - Mo	ppb	<=0.5	By ICP-MS	
Nickel - Ni	ppb	<=5	By ICP-MS	
Platinum - Pt	ppb	<=0.5	By ICP-MS	
Potassium - K	ppb	<=2	By ICP-MS	
Silver - Ag	ppb	<=0.5	By ICP-MS	





Test Name	Units	Specifications	Test Method
Sodium - Na	ppb	<= 10	By ICP-MS
Strontium - Sr	ppb	<=0.5	By ICP-MS
Thallium - Tl	ppb	<= 0.5	By ICP-MS
Tin - Sn	ppb	<= 0.5	By ICP-MS
Titanium - Ti	ppb	<=1	By ICP-MS
Vanadium - V	ppb	<=0.5	By ICP-MS
Zinc - Zn	ppb	<=2	By ICP-MS
Zirconium - Zr	ppb	<=1	By ICP-MS

## **Product Integrity Guidelines**

- Recommended Storage Temp 15 25° C.
- Avoid exposure to Sunlight & UV Light Source.
- Open in Class 100 or ISO Class 5 Cleanroom or better environment conditions.
- Once opened, Product integrity depends on chemist handling the product.

Approved by

**Priyank Patel**