

HONG KONG HESU COOPERATION LIMITED

Electronic grade index COA

Product Name	Hydrochloric Acid	Molecular formula	HCL	Level	EL
Production batch	251210	Packaging method	IBC	Quantity	20000L
Projects	Unit of measurement	Content requirement	Measured data		
Hydrochloric Acid (HCL)	w/%	36.0-38.0	37.14		
Chromaticity	Hazen	≤10	<10		
Free Halogens	ppb	≤500	<500		
Grain(≥1.0um)	/ml	≤25	6.2		
Sulfate(SO ₄ ²⁻)	ppb	≤1000	<1000		
Sulphite(SO ₃ ²⁻)	ppb	≤1000	<1000		
Phosphate(PO ₄ ³⁻)	ppb	≤1000	<1000		
Lithium(Li)	ppb	≤20	<0.1		
Boron(B)	ppb	≤50	5.4		
Natrium (Na)	ppb	≤300	11.2		
Magnesium(Mg)	ppb	≤100	14.8		
Aluminum(Al)	ppb	≤50	6.4		
Kalium (K)	ppb	≤200	3.4		
Calcium(Ca)	ppb	≤200	15.1		
Titanium(Ti)	ppb	≤50	<0.1		
Chromium(Cr)	ppb	≤20	0.7		
Manganese(Mn)	ppb	≤20	<0.1		
Ferrum (Fe)	ppb	≤100	25.3		
Cobalt(Co)	ppb	≤20	<0.1		
Nickel(Ni)	ppb	≤20	0.3		
Cuprum(Cu)	ppb	≤20	<0.1		
Zinc(Zn)	ppb	≤50	6.5		
Gallium(Ga)	ppb	≤20	<0.1		
Arsenic(As)	ppb	≤50	0.2		
Molybdenum(Mo)	ppb	≤100	<0.1		
Argent(Ag)	ppb	≤20	<0.1		
Cadmium(Cd)	ppb	≤50	<0.1		
Stannium(Sn)	ppb	≤50	1.1		
Barium(Ba)	ppb	≤100	0.2		
Platinum(Pt)	ppb	≤100	<0.1		
Aurum(Au)	ppb	≤100	<0.1		
Plumbum (Pb)	ppb	≤20	<0.1		
Conclusion: Qualified			Test date: December 14, 2025		
Examination clerk: Kong Fei		Calibration staff: Tang Xiaoshen		Auditor:Zhou Lihong	