

# GNR ANALYTICAL INSTRUMENTS



SUPPLY · SERVICE · SOFTWARE

GNR ANALYTICAL INSTRUMENTS UK - web: [www.gnranalytical.co.uk](http://www.gnranalytical.co.uk) - email: [info@gnranalytical.com](mailto:info@gnranalytical.com) 0115 937 6686

AL 01	AL 10	AL 20	AL 30	AL 40	AL 50	AL 60	AL 70
Al	Al 99	Al-Si	Al-Si-Cu	Al-Cu	Al-Mg	Al-Zn	Al-Mn
Orientation	Low Alloy						

Al#2	REF	REF	REF	REF	REF	REF	REF
Ag	0.005-0.3						
B	0.0001-0.05	0.0001-0.05					
Be	0.0001-0.05		0.001-0.2				
Bi	0.0005-0.6	0.0005-0.6	0.0005-0.6		0.0005-0.6		
Ca	0.0001-0.05		0.001-0.002				
Co	0.0005-0.5	0.0005-0.05	0.0005-0.5		0.005-0.4		
Cr	0.001-0.6	0.001-0.1	0.005-0.2	0.005-0.5	0.004-0.12	0.005-0.3	0.001-0.6
Cu	0.001-15.0	0.001-0.2	0.001-0.3	0.01-5.0	1.0-12.0	0.001-0.2	0.005-0.5
Fe	0.001-2.5	0.001-1.0	0.05-1.0	0.05-1.3	0.04-1.2	0.01-0.8	0.002-1.0
Ga	0.001-0.15	0.0005-0.05	0.001-0.15		0.001-0.15		
Li*	0.0001-0.1	0.0001-0.1				0.0005-0.005	
Mg	0.0001-15.0	0.001-1.0	0.02-2.0	0.02-1.8	0.01-2.5	1.0-10.6	0.01-3.0
Mn	0.001-2.7	0.001-0.9	0.01-0.8	0.02-0.8	0.02-1.0	0.01-1.3	0.005-0.6
Na*	0.0005-0.1	0.0005-0.1	0.0005-0.1			0.0005-0.003	
Ni	0.001-3.0	0.005-0.08	0.005-1.0	0.01-2.0	0.01-2.5	0.005-0.1	0.005-0.2
P	0.005-0.01	0.005-0.01	0.005-0.01				
Pb	0.001-1.5	0.002-0.1	0.005-0.1	0.005-0.25	0.005-1.0		0.002-0.2
Sb	0.005-0.5	0.005-0.04	0.005-0.5	0.005-0.3			0.005-0.04
Si	0.001-25.0	0.001-0.8	1.0-20.0	1.0-15.0	0.03-3.0	0.01-1.0	0.03-0.6
Sn	0.002-0.5	0.005-0.1	0.005-0.1	0.005-0.25	0.005-0.5	0.005-0.08	0.005-0.2
Sr	0.0001-0.15		0.0005-0.2				
Ti	0.001-0.55	0.001-0.1	0.01-0.3	0.01-0.55	0.004-0.2	0.005-0.2	0.001-0.2
V	0.001-0.2	0.001-0.1	0.001-0.05				0.001-0.1
Zn	0.005-15.0	0.005-0.5	0.005-0.5	0.01-3.0	0.005-3.0	0.005-0.3	0.9-8.0
Zr	0.005-0.25				0.005-0.2	0.01-0.15	0.01-0.2

LIMITS OF DETECTION FOR THE GNR METAL LAB PLUS in ALUMINIUM BASED MATERIALS