

GNR ANALYTICAL INSTRUMENTS



SUPPLY · SERVICE · SOFTWARE

GNR ANALYTICAL INSTRUMENTS UK - web: www.gnranalytical.co.uk - email: info@gnranalytical.com 0115 937 6686

	FE 01 MINILAB 300	FE 10 MINILAB 300	FE 11 MINILAB 300	FE 12 MINILAB 300	FE 13 MINILAB 300	FE 20 MINILAB 300	FE 30 MINILAB 300	FE 40 MINILAB 300	FE 50 MINILAB 300	FE 60 MINILAB 300	FE 70 MINILAB 300
	Fe Orientation	Cast Iron	Ni Hard Cast Iron	Ni Resist Cast Iron	High P Cast Iron	Carbon & Low Alloy	Cr Steel Cr/Ni Steel	Stainless Steel	Tool Steel	Free Cutting	Mn-Steel
Al	0.002-1.8	0.002-0.1			0.002-0.1	0.002-1.8	0.002-0.3	0.005-0.1		0.002-0.1	0.002-0.5
As	0.01-0.1					0.01-0.1					
B	0.001-0.1	0.001-0.05			0.003-0.05	0.003-0.05		0.003-0.1			
Bi	0.005-0.1					0.005-0.1				0.005-0.05	
C	0.002-4.5	2.0-4.5	2.0-4.5	1.3-3.5	2.0-4.1	0.002-1.3	0.005-2.0	0.005-1.0	0.3-1.4	0.004-1.3	0.001-1.5
Ca	0.001-0.01	0.0005-0.008				0.0005-0.01					
Ce	0.005-0.1	0.005-0.1									
Co	0.005-18.0	0.005-0.2			0.005-0.2	0.005-1.0	0.005-0.2	0.005-0.5	0.05-10.0	0.008-0.2	
Cr	0.002-40.0	0.002-3.0	0.1-9.0	0.05-9.0	0.002-1.5	0.002-5.0	8.0-25.0	5.0-35.0	1.9-5.0	0.002-5.0	0.005-4.0
Cu	0.002-6.0	0.002-1.5		0.1-8.1	0.002-1.5	0.002-1.0	0.01-1.5	0.01-6.0	0.01-0.1	0.002-1.0	0.002-0.5
Fe#2	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
La	0.005-0.03	0.005-0.03									
Mg	0.0005-0.1	0.0005-0.1									
Mn	0.002-20.0	0.002-2.2	0.2-2.2	0.1-6.8	0.02-2.2	0.002-2.0	0.01-2.0	0.05-2.0	0.1-0.5	0.05-2.0	0.002-20.0
Mo	0.002-10.0	0.002-1.2	0.002-1.2	0.002-1.4	0.002-1.2	0.002-2.0	0.01-2.5	0.002-2.5	0.1-10.0	0.002-2.0	
N *							0.05-1.0	0.05-1.0			
Nb	0.002-1.5	0.002-0.06		0.002-0.5	0.002-0.06	0.002-1.0	0.004-1.5	0.004-0.5		0.005-0.5	
Ni	0.002-45.0	0.002-2.6	0.002-7.0	2.5-36.0	0.002-2.6	0.002-5.0	0.1-5.0	4.0-35.0	0.02-0.4	0.002-5.0	0.002-4.0
P	0.002-1.5	0.002-0.5	0.002-0.5	0.01-0.5	0.002-1.2	0.002-0.1	0.002-0.1	0.002-0.1	0.002-0.05	0.002-0.1	0.002-0.1
Pb	0.005-0.25	0.005-0.05			0.005-0.05	0.005-0.05				0.005-0.1	
S	0.002-0.5	0.002-0.2	0.002-0.2	0.002-0.2	0.002-0.2	0.002-0.1	0.002-0.1	0.002-0.1	0.002-0.05	0.002-0.3	0.002-0.05
Sb	0.01-0.5	0.01-0.2				0.01-0.5				0.01-0.1	
Si	0.002-6.0	0.3-3.5	0.3-3.5	0.1-6.0	0.3-3.5	0.002-1.7	0.1-1.5	0.05-1.0	0.1-0.5	0.002-1.7	0.002-1.5
Sn	0.002-0.2	0.002-0.15			0.002-0.15	0.002-0.1				0.002-0.1	0.002-0.2
Ti	0.002-1.5	0.002-0.2			0.002-0.2	0.002-0.4	0.005-0.5	0.005-0.3		0.002-0.4	
V	0.002-3.5	0.002-0.4			0.002-0.4	0.002-1.0	0.01-1.0	0.01-0.8	0.2-3.5	0.002-1.0	0.002-0.3
W	0.005-25.0	0.01-0.1			0.01-0.1	0.005-0.4	0.05-0.5	0.01-4.0	0.5-22.0	0.05-0.3	
Zn	0.002-0.05	0.002-0.02				0.002-0.02					
Zr	0.002-0.5	0.002-0.08				0.002-0.1				0.005-0.5	

LIMITS OF DETECTION FOR THE GNR METAL LAB PLUS in IRON/STEEL BASED MATERIALS