

GNR ANALYTICAL INSTRUMENTS



SUPPLY · SERVICE · SOFTWARE

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	FE 01 MINILAB 300 Fe Orientation	FE 10 MINILAB 300 Cast Iron	FE 11 MINILAB 300 Ni Hard Cast Iron	FE 12 MINILAB 300 Ni Resist Cast Iron	FE 13 MINILAB 300 High P Cast Iron	FE 20 MINILAB 300 Carbon & Low Alloy	FE 30 MINILAB 300 Cr Steel Cr/Ni Steel	FE 40 MINILAB 300 Stainless Steel	FE 50 MINILAB 300 Tool Steel	FE 60 MINILAB 300 Free Cutting	FE 70 MINILAB 300 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	0.02-2.2	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 MINILAB 300 in IRON/STEEL MATERIALS