

Metal analysis appliance: SPECTROMAXx (Company SPECTRO)

Technical Data

- Open spark stand for a high output of samples and for different sampling geometries
- High resolution CCD-multi detectors with a wave length range of 140-670 nm
- Selectable modules of analysis
- All digital plasma generator
- max. radio durance: 4.000 μ s
- max. radio capacity: 4 kW



Open spark stand with holding down clamp

Software for analytic operations and calibration

Applications

- Testing the chemical composition of ferrous metal and non-ferrous metal
- Quality control during goods receiving and during metal processing



Analysis of welding deposit with test replica

Date: Prof. A. Thier															
Proben Nr.: EG-Schweißprobe															
Kupferteil - 6.10															
C				Mn				Cr				Ni			
%	%	%	%	%	%	%	%	%	%	%	%	%	%		
1	0.067	0.204	2.08	0.010	0.0070	0.042	0.118	0.174							
2	0.054	0.276	2.05	0.010	0.0059	0.042	0.117	0.185							
3	0.057	0.281	2.07	0.011	0.0066	0.040	0.115	0.181							
Al				Ti				V				W			
%	%	%	%	%	%	%	%	%	%	%	%	%	%		
1	0.018	0.066	0.010	0.0056	<-0.0040	0.0031	<-0.0070	<-0.0020							
2	0.014	0.052	0.010	0.0042	<-0.0040	0.0025	<-0.0070	<-0.0020							
3	0.013	0.058	0.010	0.0037	<-0.0040	0.0025	<-0.0070	<-0.0020							
Mg				Sb				Sn				Zn			
%	%	%	%	%	%	%	%	%	%	%	%	%	%		
1	0.0007	0.0028	0.0093	0.0036	0.0025	0.015	<-0.0015	<-0.010							
2	<-0.0005	0.0022	0.0035	0.0032	0.0018	0.012	<-0.0015	<-0.010							
3	<-0.0005	0.0023	<-0.0025	0.0032	0.0023	0.012	<-0.0015	<-0.010							
Ca				Zr				La				Se			
%	%	%	%	%	%	%	%	%	%	%	%	%	%		
1	0.0030	<-0.0020	<-0.0015	<-0.0005	<-0.0020	0.025	97.03								
2	0.0006	<-0.0020	<-0.0015	<-0.0005	0.0027	0.024	97.13								
3	0.0007	<-0.0020	<-0.0015	<-0.0005	0.0028	0.023	97.10								