

XRF ANALYSIS SERVICE AND REPORTING

WHAT IS XRF ANALYSIS SERVICE?

SAMPLE ACCEPTANCE AND PREPARATION PROCESS

VISUAL INSPECTION AND PRELIMINARY ASSESSMENT

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SOLUTION RECOMMENDATIONS AND ADDED VALUE



X-Ray Fluorescence (XRF) analysis is a modern method that enables the rapid and reliable detection of elements in solid or liquid samples.

The XRF Analysis Service we offer at Bimaks covers the detailed examination, measurement and reporting of minerals and sediments in samples. The results obtained are compared with industry standards, and process-specific solutions are developed.

Thanks to our advanced equipment, measurements are performed with high precision, enabling the early identification of potential risks in systems and their prevention through the correct chemical selection.

WHAT IS XRF ANALYSIS SERVICE?

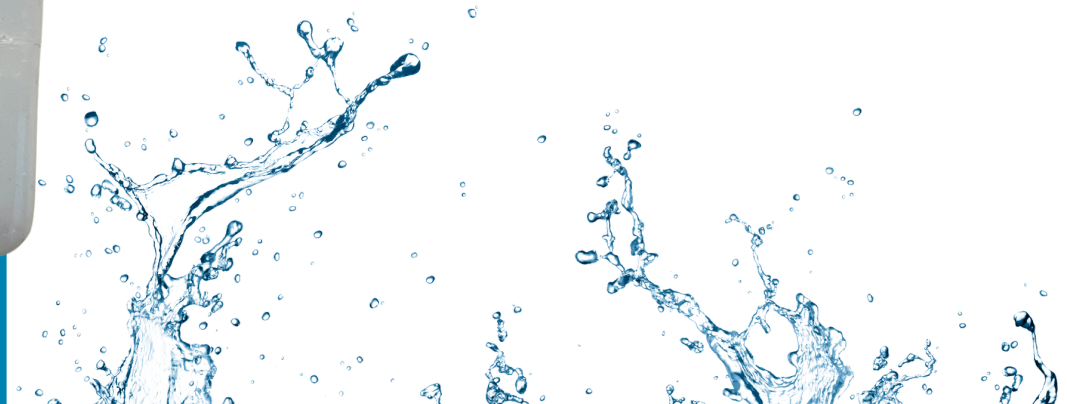


SAMPLE ACCEPTANCE AND PREPARATION PROCESS

The first step in our XRF analysis service is the secure acceptance of samples received from our customers. Samples are usually delivered to our laboratory in special containers or protective packaging.

Upon arrival at the laboratory, samples are first registered and subjected to visual inspection. At this stage, a preliminary assessment is made by observing surface deposits, corrosion marks or mineral structures.

Each sample is then prepared separately to make it suitable for analysis in the XRF device. This ensures that the most accurate and reliable results are obtained during the measurement process.



VISUAL INSPECTION AND PRELIMINARY ASSESSMENT

After the samples arrive at the laboratory, they undergo visual inspection prior to XRF analysis. At this stage, any deposits, corrosion and mineral layers formed on the coupon surfaces are observed in detail. Visual assessment provides initial information about the general condition of the sample and determines which areas need to be examined during the analysis process. This preliminary assessment enables more accurate measurements and clarifies the effect of deposits on the process.



Sample 1



Sample 2



Sample 3



Sample 4

PORTABLE XRF ANALYSER



The most important stage of the analysis process is the examination of samples in our portable XRF device. The Niton XL5 Plus used in the Bimaks laboratory provides reliable results thanks to its high sensitivity and wide mineral measurement range.

The device's portability allows samples to be analysed quickly both in the laboratory environment and in the field when necessary. Short scans applied to the coupon surface instantly detect and record the mineral composition of deposits.

Thanks to the XR device, measurements are performed contact-free, quickly and reliably. This saves our customers time and helps them choose the most accurate solution.



SOLUTION RECOMMENDATIONS AND ADDED VALUE

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XRF Material Analysis Report

XL2-203021

Reading No 156
Mode General Metals
Time 2023-03-13 16:41
Duration 76.19
Units %
Sigma Value 2
Sequence Final
Alloy1 No Match : *6.04
Alloy2 No Match : *6.77
Flags
SAMPLE boru şeklinde materyal numunesi
HEAT
LOT
BATCH
MISC
NOTE



Ele	%	±%	22e
Mg	0.000	±%	0.001
Al	0.220	±%	0.110
Si	1.302	±%	0.030
P	0.178	±%	0.010
S	1.073	±%	0.040
Ti	0.077	±%	0.056
V	0.000	±%	0.029
Cr	0.000	±%	0.017
Mn	0.000	±%	0.016
Fe	0.431	±%	0.024
Co	0.000	±%	0.009
Ni	0.094	±%	0.019
Cu	90.273	±%	0.130
Zn	0.007	±%	0.040
Se	0.000	±%	0.007
Zr	0.000	±%	0.006
Nb	0.079	±%	0.017
Mo	0.000	±%	0.029
Pd	0.000	±%	0.010
Ag	0.000	±%	0.009
Cd	0.015	±%	0.011
Sb	0.047	±%	0.031
W	0.000	±%	0.024
Pb	0.249	±%	0.027
Bi	0.000	±%	0.017
Ru	0.000	±%	0.000
Au	0.000	±%	0.001

Supervised By: ATD

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SAHA GÖZLEM RAPORU

Kupon Yeri	ÜRETİM KUYUSU
Tarih/Saat	10.02.25
Inhibitör/Dozaj	4 ppm



Jeotermal Saha Kupon Gözlem Kartı v1_0423

The results obtained from XRF analysis are reported in detail, comparing them with international industry standards. These reports clearly identify the source of deposits forming in your system and provide a solid foundation for solutions tailored to your process.

At Bimaks, we do not merely communicate the results after analysis; we also minimise the risk of future corrosion and deposits in your systems by recommending the correct inhibitor selection, appropriate dosage determination, and preventive application.

Thanks to our field experience, rapid response capability, and reliable reporting approach, we offer our customers not just an analysis service, but also a value-added roadmap.



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