

# Olympus

Olympus is a world-leading manufacturer of innovative test and measurement solutions that are used in industrial and research applications ranging from aerospace, power generation, petrochemical, civil infrastructure, and automotive to consumer products. Leading-edge testing technologies include:

- Conventional Ultrasound
- Eddy Current and Eddy Current Array
- High Speed Video
- Microscope Solutions
- Optical Metrology
- Phased Array
- Remote Visual
- X-ray Fluorescence (XRF) / X-ray Diffraction (XRD)

## Our X-ray Fluorescence solutions for Alloys and Metals analysis

Commonly used for quality and process control, scrap, recycling and general manufacturing, our XRF Analyzers provide highly specific material chemistry to rapidly and accurately identify pure metals and alloy grades. These grades are used in numerous applications such as:

- Aerospace and automotive: aluminum, magnesium, titanium, stainless steels alloys

- Petrochemical, power generation: low and high alloy steel, nickel, zirconium alloys
- Precision manufacturing: stainless steel, chromium, nickel, copper alloys
- Biomedical: titanium, cobalt-chromium alloys

## Alloy grades identification with the DELTA Handheld XRF analyzer

**Reliable, fast and rugged**  
From simple sorting to challenging grade separations, from incoming material inspection to end-product verification, the DELTA is a reliable and rugged handheld analyzer that maximizes both speed and accuracy.

## Alloy grade libraries

Configured with a standard package of 25+ chemical elements and including editable alloy libraries of more than 500 grades, the DELTA generates alloy chemistry and grade identification in seconds.

## Productive inspection

DELTA's SmartSort solution automates inspector's decisions, enabling even inexperienced operators to maximize both speed and inspection accuracy. This powerful feature yields optimized throughput and accuracy, making the DELTA an extremely productive XRF for alloy inspection.

El	%	+/-	Spec (321)
Fe	70.42	0.15	[65.28-74.80]
Cr	17.54	0.11	[17.00-19.00]
Ni	8.86	0.11	[8.00-10.50]
Mn	1.41	0.06	[0.00-2.00]
Ti	0.54	0.04	[0.20-0.70]
Si	0.47	0.02	[0.00-1.00]
Cu	0.35	0.03	[0.00-0.75]
Mo	0.307	0.007	[0.00-0.70]

## On-line alloy grades verification with the FOX-IQ Process XRF System

**Tubes and bars automated inspection**  
The FOX-IQ Process & On-Line XRF System is for automated, continuous, on-line and nondestructive verification of alloy grade and chemistry. The system delivers pass/fail tests, accurate grade identification, and chemistry with automated links to the QC/QA reporting system.

## Increased quality and productivity

The FOX-IQ is designed for 24/7 operation industrial environments to optimize processes for increased productivity & improved quality. The FOX-IQ is a compact system that integrates easily with new or existing PLC-controlled processes.



# OLYMPUS®

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