Thermo Scientific[™] products in the iron and steel manufacturing process

Raw materials processing

Weight verification

Elemental analysis using XRF and SEM/EDX

Phase analysis using XRD

Handheld XRF analysis

Online elemental analysis of coal

Density, flow and level measurement

Online gas and moisture analysis

Radiation measurement and protection

Particulate monitoring

Laboratory informatics

Elemental analysis using Spark OES, XRF and SEM/EDX

Inclusion analysis using Spark OES and SEM/EDX

Handheld XRF analysis Flow measurement

Online gas analysis

Radiation measurement and protection

Particulate monitoring

Laboratory informatics

Hot rolling

Thickness measurement and lab XRF analysis

Profile measurement

Data acquisition & management

Radiation measurement and protection

X-ray source/flux stability

Cold rolling

Thickness measurement and lab XRF analysis

Elemental analysis using Spark OES

Gas analysis

Data acquisition & management

Radiation measurement and protection

Processing lines and finished products

Coating weight measurement

Thickness measurement

Elemental analysis using Spark OES, XRF and SEM/EDX

Inclusion analysis using Spark OES and SEM/EDX

Laboratory informatics

Gas analysis

Radiation measurement and protection

Data acquisition & management

Particulate monitoring



Stage 1 Raw materials processing (iron ores)













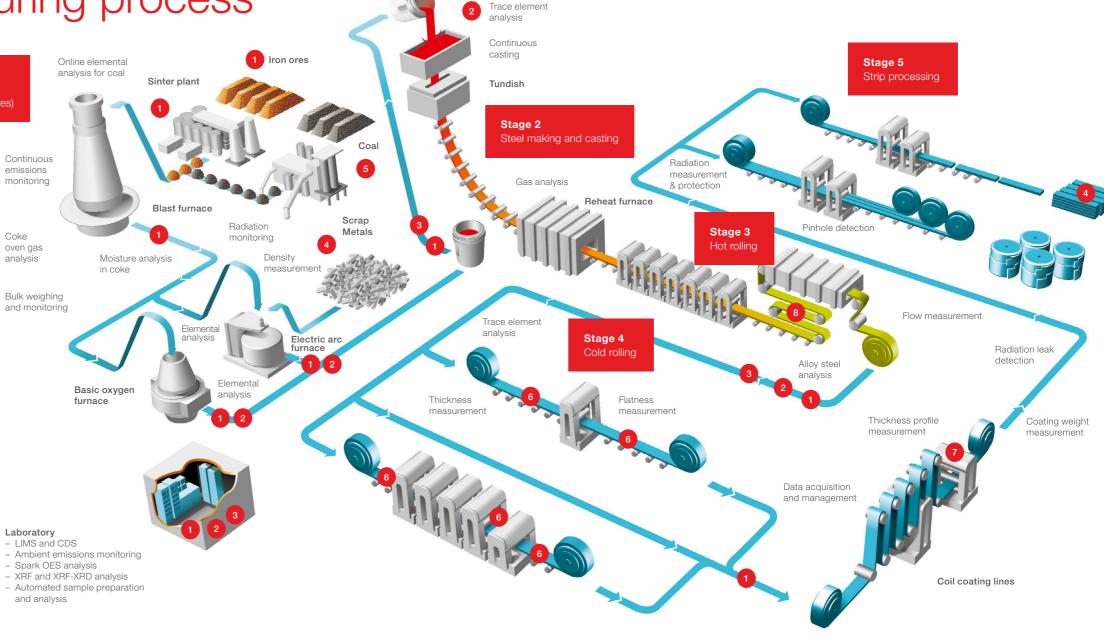










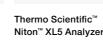






Thermo Scientific ARL iSpark OES Metals Analyzer







Thermo Scientific RM 210 CM Thickness Gauge

Thermo Scientific™ RM 315 EC Galvanneal Coating Weight Gauge

SCIENTIFIC