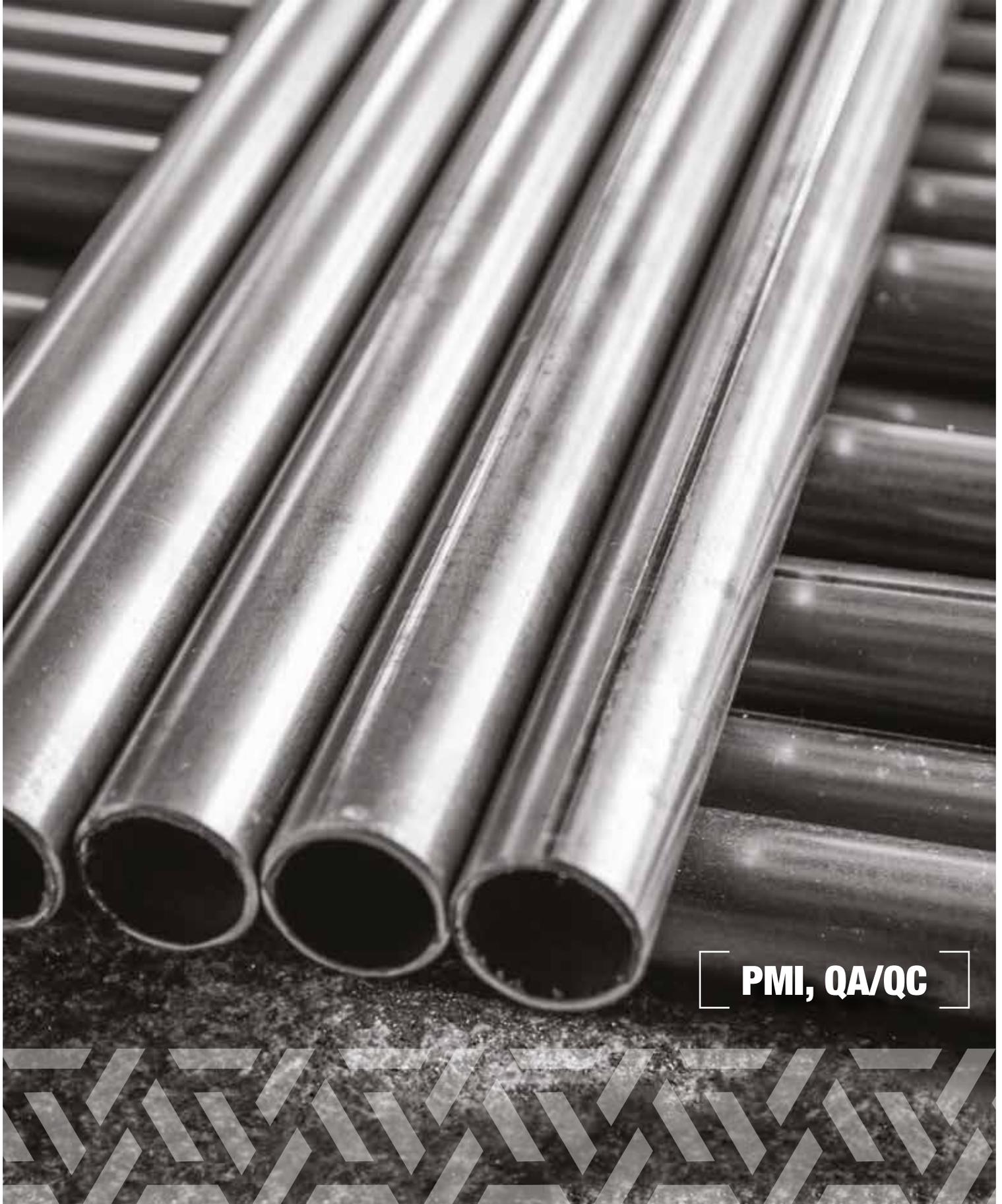


# GRADE Database

**HITACHI**  
Inspire the Next

The most comprehensive metals database



**PMI, QA/QC**



# Missing grades?

## FIND THEM IN A FEW EASY STEPS

The GRADE Database is the largest metals database available, preinstalled on all Hitachi High-Tech optical emission spectrometers (OES), also optional for the X-MET8000, with more than 15 million records for almost 350,000 metal grades from 74 countries/standards.

### With a few easy steps you can:

- | Find equivalents to foreign metals and compare alternatives side by side or cross reference.
- | Search for metals worldwide by specific chemical composition or mechanical properties.
- | Decipher metal specifications and find the correct grade for a specific application.
- | Find precise traceable and reliable mechanical, physical and other property data for various conditions and temperatures.
- | Follow the ever increasing pace of changes to national and international standards (such as AISI/ASTM, DIN, EN, BS, JIS, GOST and many more).

## MODELS INCL. GRADE DATABASE\*

(OPTICAL EMISSION SPECTROMETERS)

- | FOUNDRY-MASTER Smart
- | FM EXPERT
- | FOUNDRY-MASTER Pro2
- | OE750
- | TEST-MASTER Pro
- | PMI-MASTER Pro2
- | PMI-MASTER Smart

## MODELS WITH OPTIONAL GRADE DATABASE\*

- | X-MET8000 series (handheld XRF analysers)

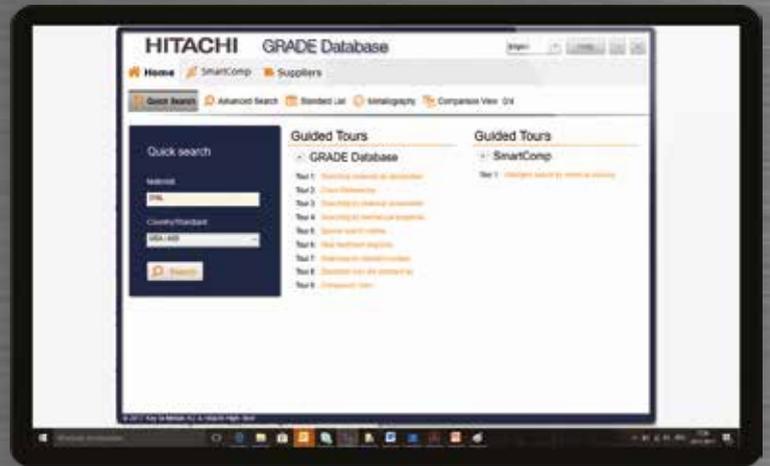
\*Post purchase also possible

## ANNUAL FREE UPDATE

Licence holders may check our website [www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha) for downloads.

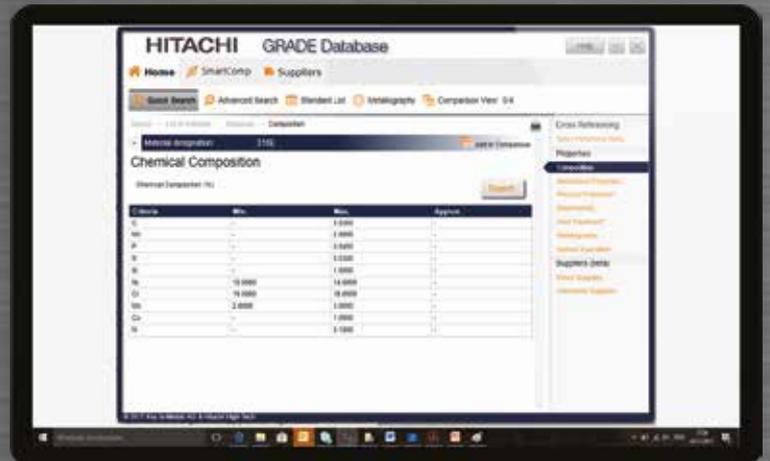
## STEP 1: SEARCH

A grade missing in your instrument's database? Just enter the grade name in the quick search, additionally select the corresponding designation.



## STEP 2: SELECT

Select the grade's chemical composition, click "Export", select instrument type: HHXRF, OES, HHLIBS.



## STEP 3: IMPORT

Import grade limits to instrument's database.

- | No time consuming research in norms and grade catalogues – update your GRADE Database with a few clicks.
- | No manual addition of grade tables necessary.
- | No worries about typos, incomplete or not updated grade tables.

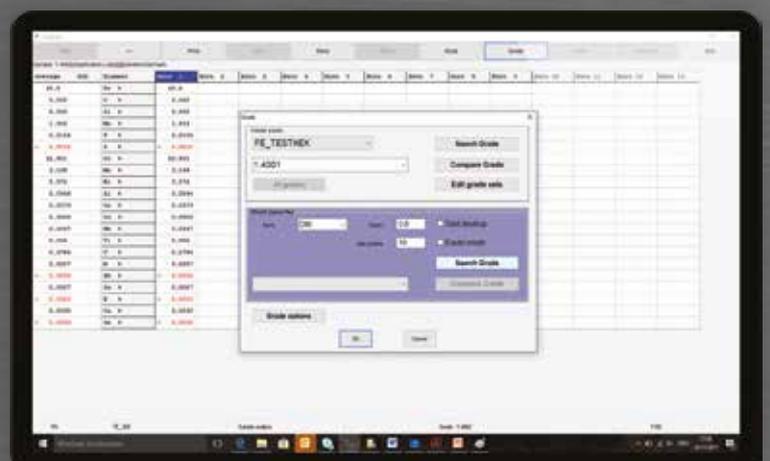


## EVEN EASIER: GRADE SEARCH PLUS FUNCTION\*

The optional GRADE Search Plus function identifies unknown metals from chemical composition obtained from our OES analyser.

Based on the OES analysis this function searches directly with a fuzzy logic algorithm in the complete GRADE Database – no export and import of grades is needed.

Without leaving the spectrometer software the GRADE Database can be launched for additional features.



\*Optional, only for OES analysers

# Additional features

This comprehensive metals database goes beyond identification: it finds precise, traceable and reliable mechanical, physical and other property data for various conditions and temperatures and even a list of suppliers. With the advanced identification option matching alloys that may be more appropriate for the specific problem can be found.

## YOUR BENEFITS:

- | Tremendous time and cost saving through high speed material identification.
- | Strengthening business quality functions, from vendor assurance to material testing.
- | Deciphering metal specifications and finding the correct grade for a specific application for various conditions and temperatures.

Grade not found in the instrument's database? You'll find it here.

## FREE 60 DAY TRIAL

To find out more about the GRADE Database and test it in a free trial for 60 days visit our website:

[hhtas.net/grade-database-en](http://hhtas.net/grade-database-en)

# Other products

We have been providing industrial analysis products for the manufacturing industry for over 40 years.

- | **Vulcan:** latest LIBS technology for 1-second alloy identification with no X-rays.
- | **X-MET8000:** for fast, reliable, non-destructive identification and analysis of alloys with XRF.

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