

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 12 million records for almost 340,000 metal grades.

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 Pro2
- | FOUNDRY-MASTER Xpert
- | FOUNDRY-MASTER Optimum
- | FOUNDRY-MASTER Smart
- | 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 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.

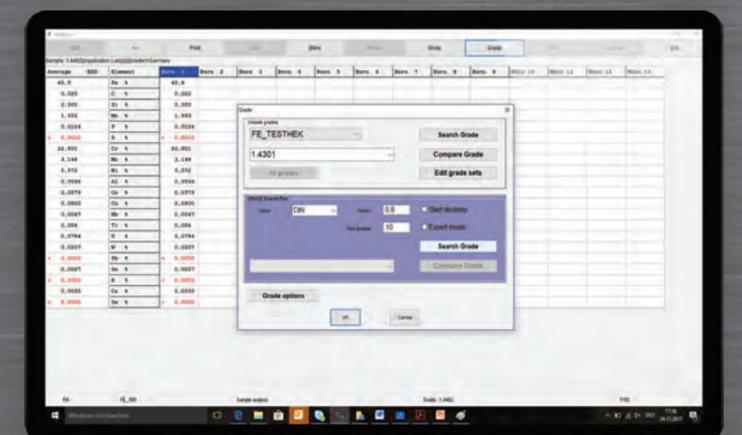
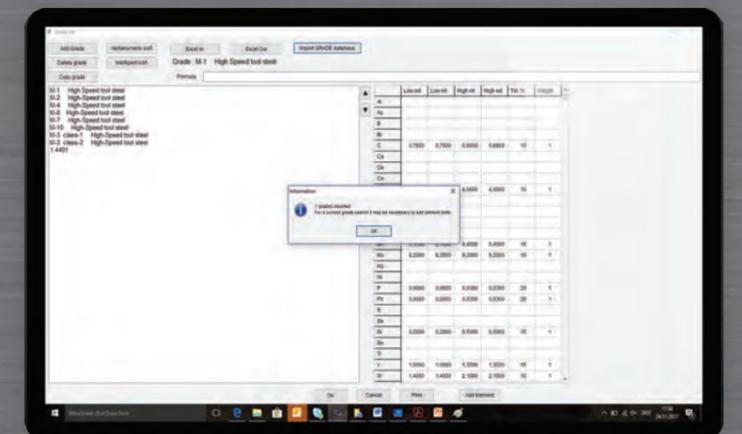
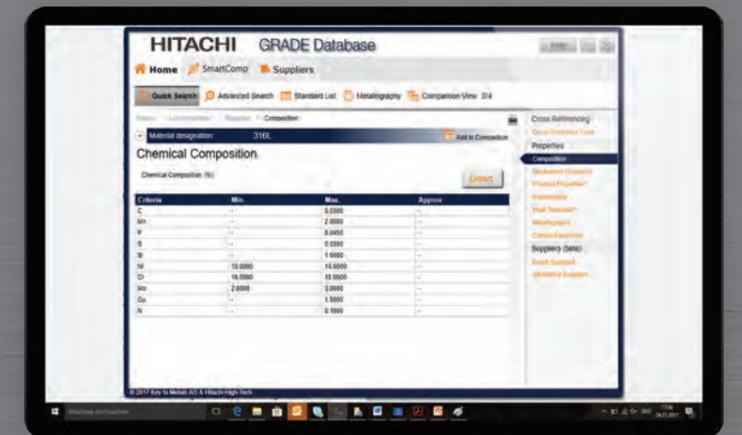
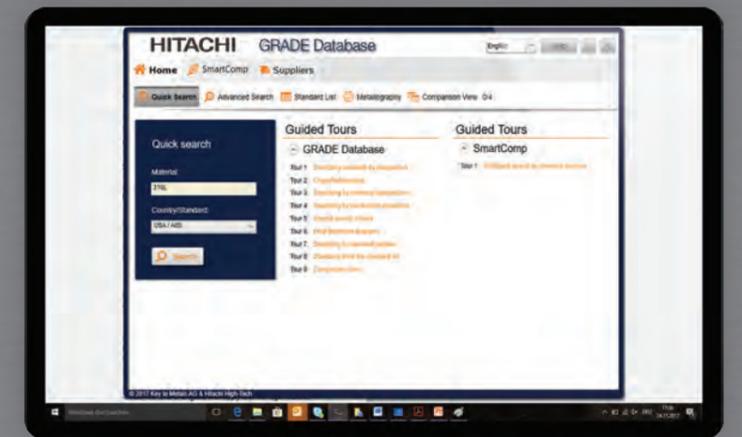
EVEN EASIER: GRADE SEARCH FUNCTION*

The optional grade search 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.

MORE INFORMATION

To find out more about the GRADE Database visit our website: www.hitachi-hightech.com/hha

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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 Science for
a better tomorrow