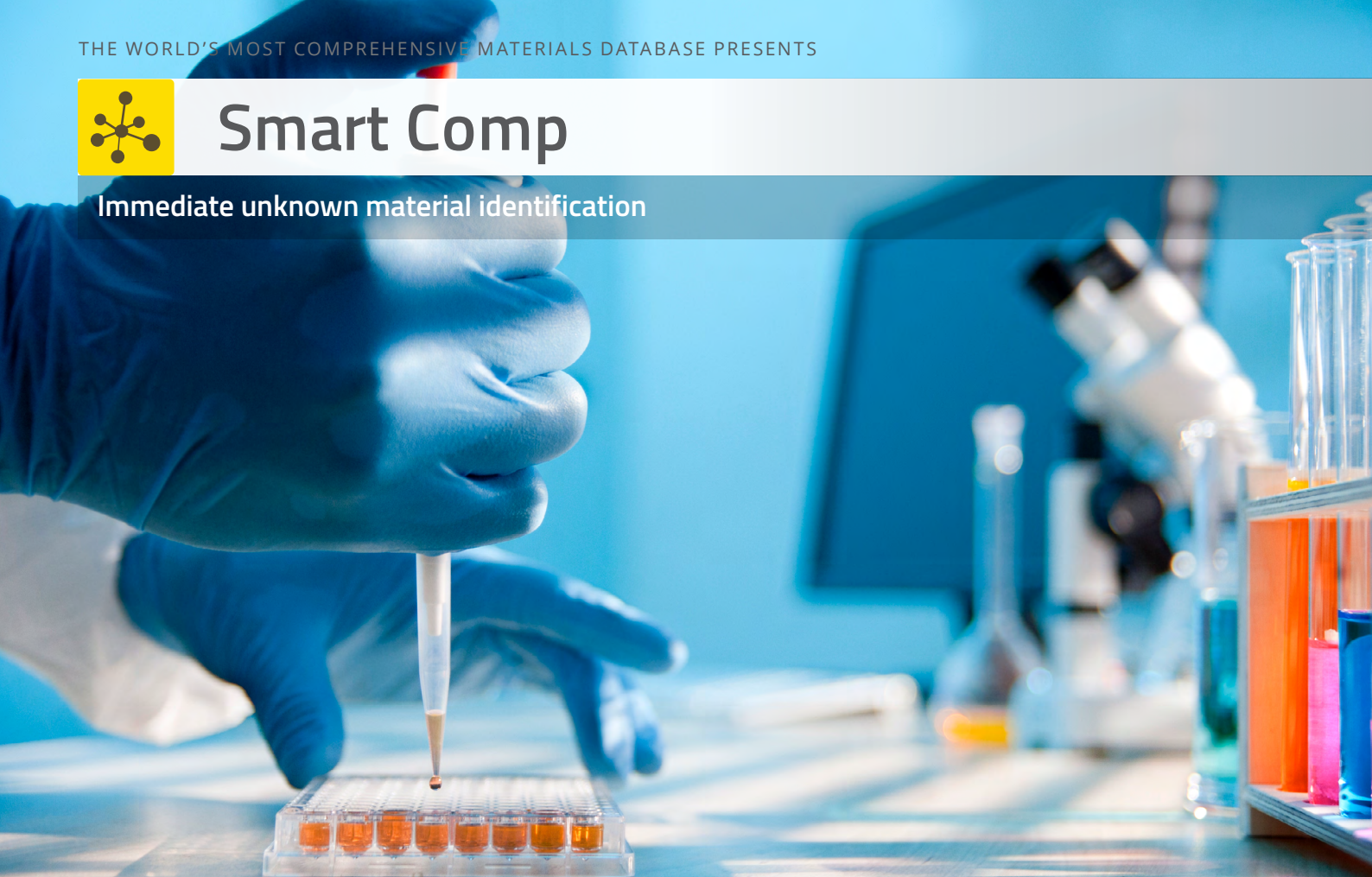




Smart Comp

Immediate unknown material identification



SmartComp, the add on module from Total Materia allows intelligent metal identification by chemical composition obtained from spectrometer or other analytical sources.

STEP 1

STEP 2

STEP 3

Enter a chemical composition of an unknown material

Get the results instantly

Review materials, properties and more

As you get it from the measurement instrument, test results or documentation

Total Materia's proprietary algorithm finds suitable matches in seconds!

View and compare materials and data harnessing the full power of Total Metals

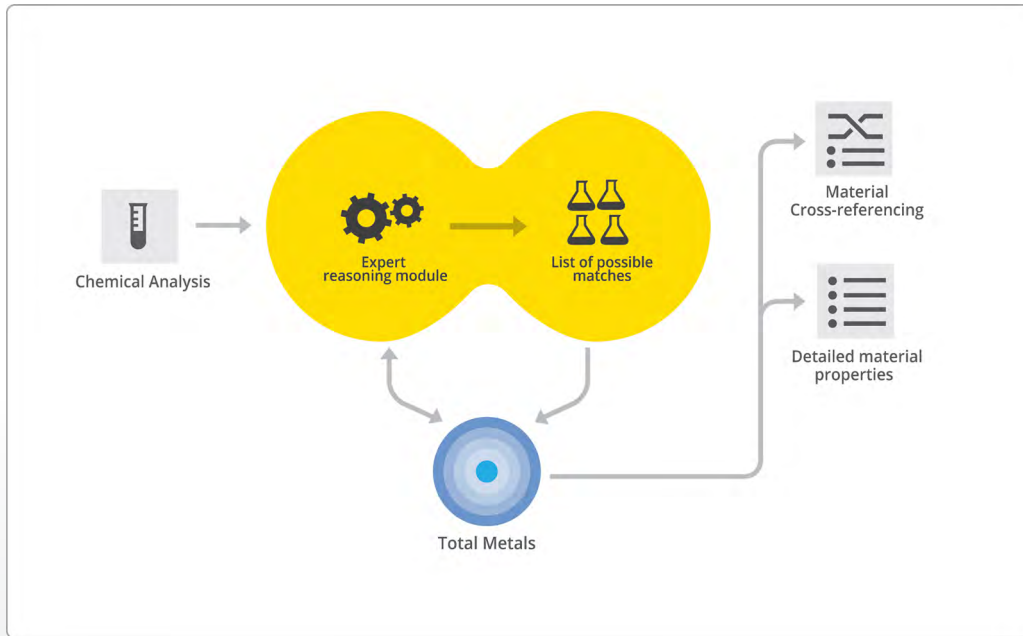
Tremendous time and cost savings through high speed material identification; strengthening business quality functions, from vendor assurance to material testing; expert reasoning helps to make the right decisions, and quickly!



Total Materia



Using a patented algorithm, SmartComp can eliminate a huge amount of working time dedicated to research and increases efficiency by allowing fast, multi-criteria material identification.



Expert reasoning through patented technology

Designed to “think” like an expert, SmartComp carries out what would be extremely time consuming manual research work in a matter of seconds. Using a patented algorithm SmartComp ensures that problematic trap elements, impurities and oligoelements do not bog the identification process down and focuses the search on the most important elements to the user.

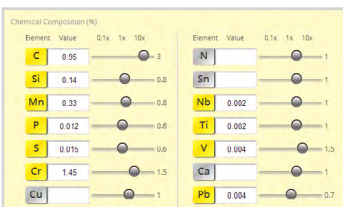
CELKOVÝ POČET POLOŽEK: 393

Přijďte do pokročilého vyhledávání.

Material	Země/Norma	Podobnost:
1.2067	Belgie / NBN	0.94
1.2067	Bulharsko / BDS	0.94
1.2067	Česká republika / CSN	0.94
1.2067	Evropská unie / EN	0.94
1.2067	Finsko / SFS	0.94
1.2067	Francie / AFNOR NF	0.94
1.2067	Itálie / UNI	0.94

Powered by the largest metals database

Even the best expert cannot do a lot without a large data library for lookup and comparison. SmartComp is therefore integrated with the Total Materia Database, setting up the possibility to compare the entered chemical analysis with composition data from over 350,000 materials, thus ensuring finding material matches is a hassle free process.



Advanced identification options

In addition to Standard identification mode, advanced Expert mode offers a possibility to set the relative importance to each alloying element individually, thus obtaining matching alloys that may be more appropriate for the specific problem. Reference Materials is another module, which facilitates finding materials for calibrating spectrometers.

Compare materials

MATERIAL DESIGNATION	100Cr2	100CrMnSi6-6
Chemical Composition (%)		
C	0.98	0.98
Si	0.33	0.33
Mn	0.33	0.33
P	0.012	0.012
S	0.015	0.015
Cr	1.45	1.45

Beyond identification

Identifying matching materials may only be one part of the story. Total Materia allows direct access from the material match list to material properties, thus providing a possibility for a more detailed comparison of candidate materials and their properties, including side-by-side comparison option, and combining comparison of chemical composition and mechanical properties using cross-reference tables and SmartCross² module.