Total Materia

Tips and Tricks: APA Total Materia Premium Edition

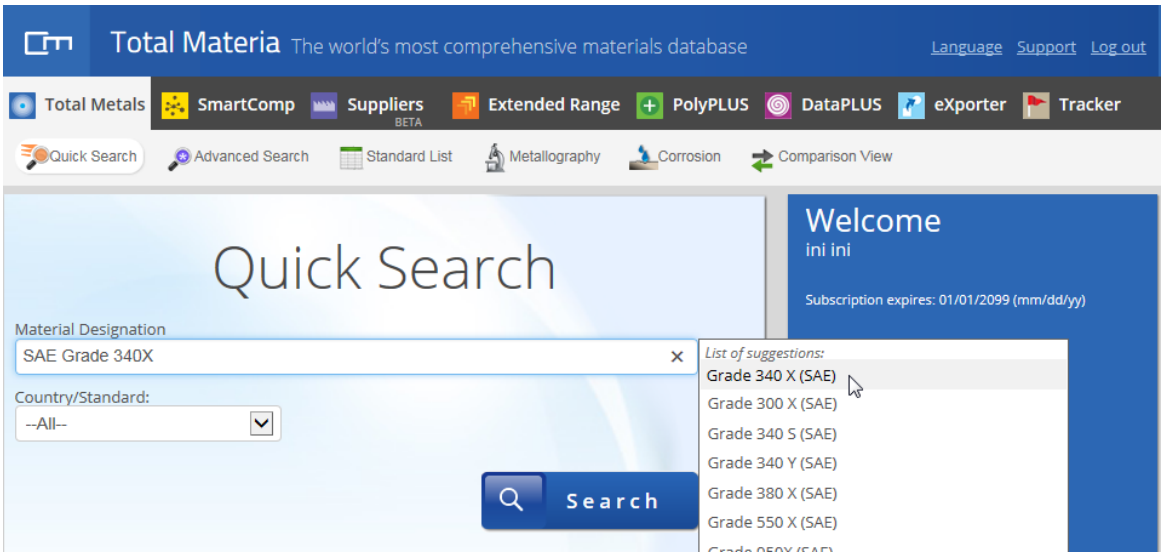
About Total Materia

Total Materia, the world's most comprehensive materials database, and has provided the engineering community with its invaluable resource for over a decade. With over 450,000 metallic and non-metallic materials from 67 international standards Total Materia provides the benchmark for the basics such as cross-referencing, chemical composition, mechanical and physical properties and in addition, a unique vast database module containing thousands of stress strain, fatigue data and other experimental information.

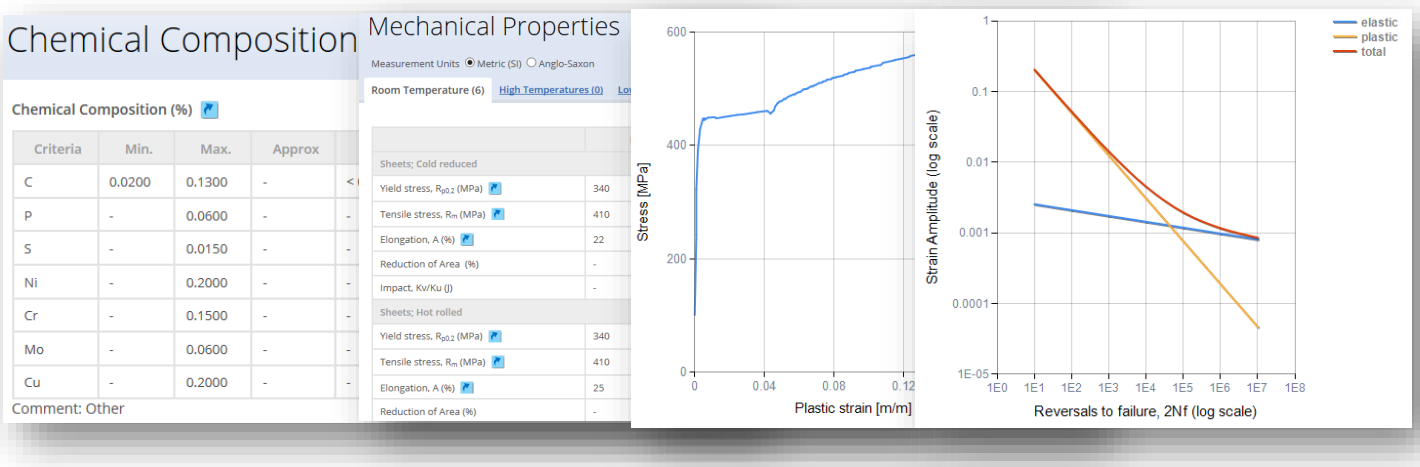
Challenge Objective

To select and compare materials and their properties at the designation level, and then to compare specific stress strain curves of those materials on the same axis.

1.0 Search for the designation of interest to be compared.



2.0 Possibility to view basic and advanced properties for the selected material



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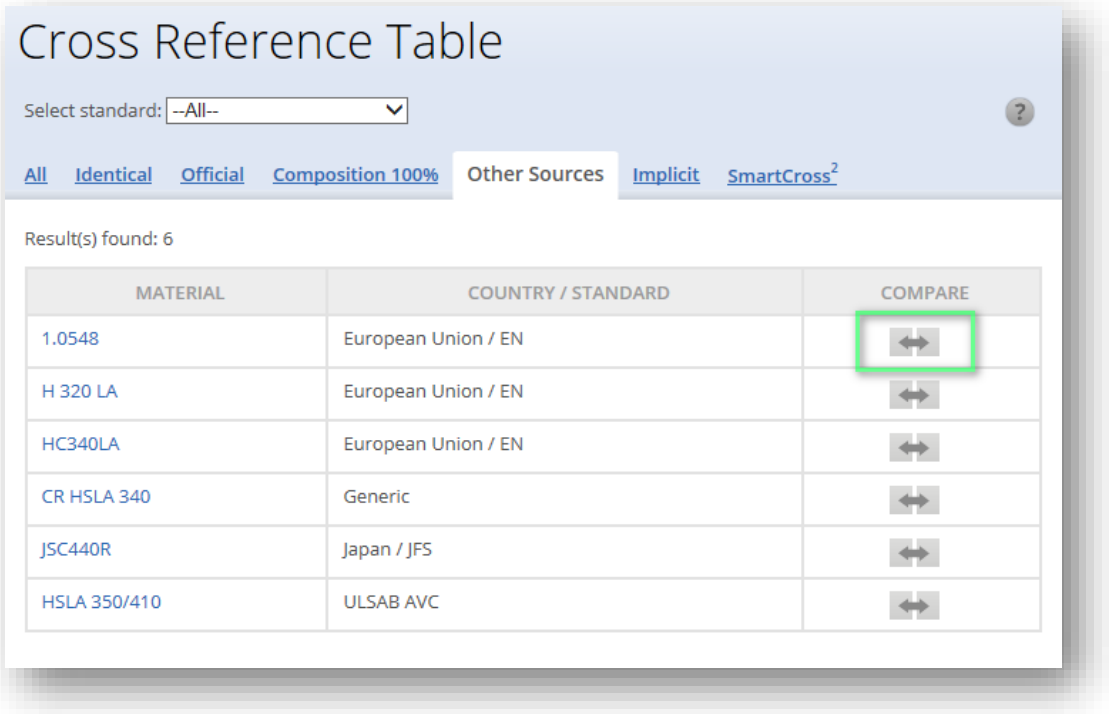
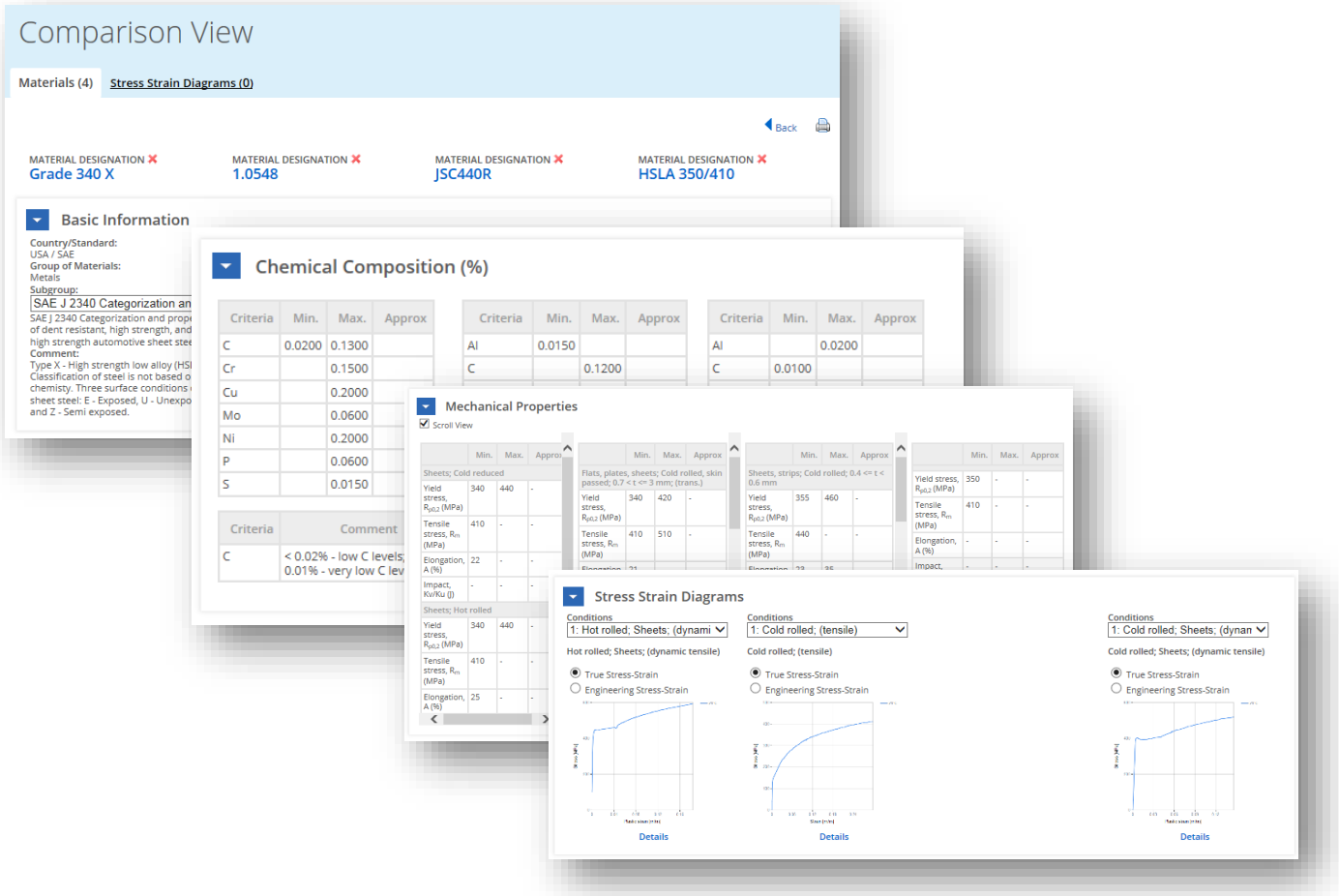
3.0 Select equivalency candidates for comparison and replacement from the 20 million cross reference connections and quick compare the original SAE Grade 340X against other global material grades.



4.0 Add materials of interest including the original to a four way property comparison.



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5.0 From the 4 selected materials select specific stress strain curves from all available conditions to compare on the same axis