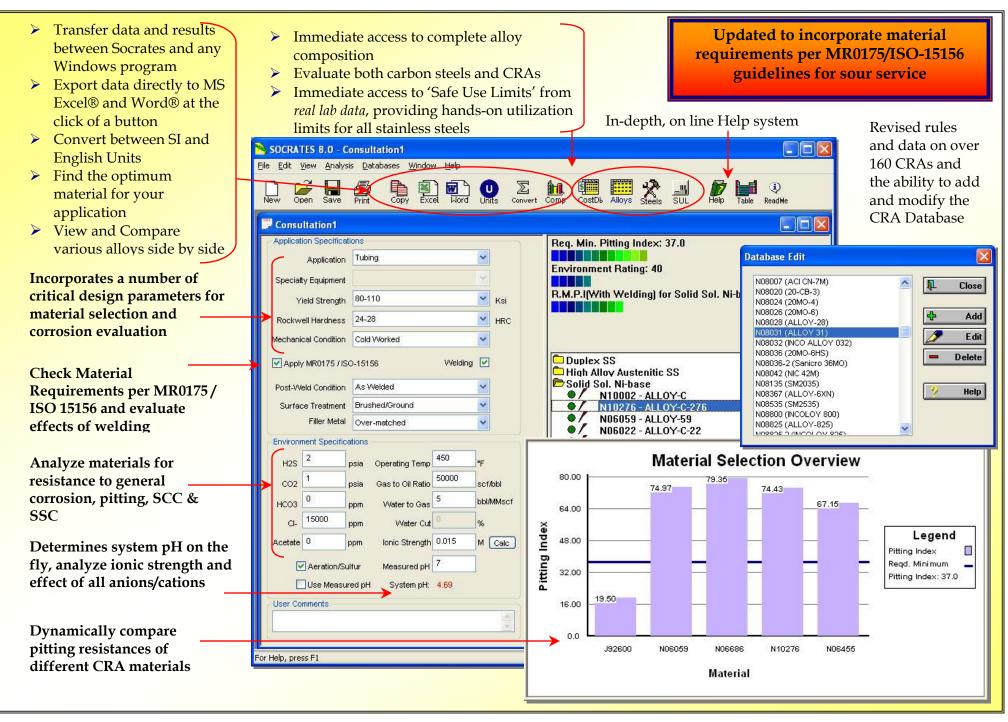




## **Comprehensive Material Selection System** for Corrosive Oil and Gas Applications







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# New Features & Benefits

- Updated rules and data on over 160 corrosion resistant materials, gleaned from latest corrosion literature, extensive lab tests and real field experience
- System reasoning updated to reflect current industry guidelines (NACE MR0175/ISO 15156 guidelines for sour service)
- Compare pitting resistance and compositions of different materials with the new compare materials module
- On-the-fly access to utilization limits for stainless steels, obtained from a comprehensive joint industry project (over 2000 data points) entitled 'Safe Use Limits for Stainless Steels'
- New, expanded pH determination module that provides comprehensive pH analyses and determination of ionic strength based on all anions and cations
- Access to comprehensive test data on autoclave exposure, critical pitting temperature (CPT) and slow strain rate (SSR) test data for various materials
- Expanded, context sensitive help facility providing instantaneous guidance on both system utilization and technical questions
- Enhanced cost analysis module which provides end users the ability to store cost data for materials and compare cost for different materials

## Compare Alloys User Interface Compare Characteristics **UNS NUMBER** UNS NUMBER **UNS NUMBER UNS NUMBER** UNS NUMBER J92500 J92500 N06950 N08024 N08024 CF-3 CF-3 ALLOY G-50 20MO-4 20MO-4 Fe 31.65 67.39 67.39 17.50 Fe 31.65 1.50 1.50 Mn 1.00 1.00 Ni 50.00 Ni 10.00 10.00 37.50 Co 0.00 Co 0.00 Cr 19.00 Cr 19.00 Cr Periodic Table 0.00 0.00 Мо of Elements 0.00 0.00 0.00 0.00 0.00 0.00 Pitting Pitting Pitting 19.00 19.00

- Access to the most current material selection data and guidelines
- Includes updated rules to select materials for compliance with new MR0175/ISO 15156 guidelines
- Access to accurate, comprehensive, current material selection data on most common corrosion resistant materials currently used in the industry
- Automation of complex material selection / corrosion evaluation tasks including evaluation for general corrosion, localized corrosion (pitting / crevice), stress corrosion cracking and sulfide stress cracking
- New tools that provide broad functionality and enhanced productivity
- Compatibility with all current Windows operating systems
- A complete re-designed and Windows-XP Compatible user interface to promote ease of use and access to meaningful data to support alloy selection decisions
- Export Socrates 8.0 consultation data to MS Excel and MS Word at the click of a
- Ability to share Socrates data electronically with other Windows programs
- A completely re-designed hyper text help system with access to online data and rules
- A HTML-based periodic table module to provide end users access to physical properties and data relevant to all corrosion resistant materials

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