Comprehensive Material Selection System for Corrosive Oil and Gas Applications

- Transfer data and results between Socrates and any Windows program
- Export data directly to MS Excel® and Word® at the click of a button
- Convert between SI and English Units
- Find the optimum material for your application
- View and Compare various alloys side by side

Incorporates a number of critical design parameters for material selection and corrosion evaluation

- Updated to incorporate material requirements per MR0175/ISO-15156 guidelines for sour service

- Immediate access to complete alloy composition
- Evaluate both carbon steels and CRAs
- Immediate access to ‘Safe Use Limits’ from real lab data, providing hands-on utilization limits for all stainless steels

- In-depth, on line Help system

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- Revised rules and data on over 160 CRAs and the ability to add and modify the CRA Database

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- Check Material Requirements per MR0175/ISO 15156 and evaluate effects of welding

- Analyze materials for resistance to general corrosion, pitting, SCC & SSC

- Determines system pH on the fly, analyze ionic strength and effect of all anions/cations

- Dynamically compare pitting resistances of different CRA materials

Material Selection Overview

Legend

Pitting Index
Real Minimum
Pitting Index: 37.3
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

Highlights

- 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

User Interface

- 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 button
- 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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