InterCorr INTERNATIONAL

Socrates® 8.0

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

- 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

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

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

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

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

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Comprehensive Material Selection System for Corrosive Oil and Gas Applications

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

Compare Alloys

Compare Characteristics

UNS NUMBER J92500		UNS NUMBER J92500		UNS NUMBER N06950		UNS NUMBER N08024		UNS NUMBER N08024	
CF-3		CF-3		ALLOY G-50		20MO-4		20MO-4	
Fe	67.39	Fe	67.39	Fe	17.50	Fe	31.65	Fe	31.65
Mn	1.50	Mn	1.50	Mn	1.00	Mn	1.00	Mn	1.00
Ni	10.00	Ni	10.00	Ni	50.00	Ni	37.50	Ni	37.50
Co	0.00	Co	0.00	Co					
Cr	19.00	Cr	19.00	Cr					
Mo	0.00	Mo	0.00	Mo					
W	0.00	W	0.00	W					
Cb	0.00	Cb	0.00	Cb					
N	0.00	N	0.00	N					
Pitting Index:	19.00	Pitting Index:	19.00	Pitting Index:					

Click on an element for more information

Periodic Table of Elements

➢ *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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