



Corrosion Modeling Software and Corrosion Prediction Software Series

F2Compass®: Modeling and Prediction of Corrosion by Dry Fluorine

High-Value Software Solutions to Costly Corrosion

Version 12.4

★ **Performance** ★ **Functionality** ★ **Usability**



Anytime Anywhere Any Device Any OS
No USB dongles No installation No Browser Plug-
ins

Contact Us for Licensing Details

Why WebCorr | Performance Guarantee | Unparalleled Functionality | Unmatched Usability | Any Device
Any OS | Free Training & Support | CorrCompass

Overview of F2Compass

F2Compass is the only device and OS independent predictive software on the market for the modeling and prediction of corrosion by dry fluorine gas. Designers, engineers, consultants, maintenance and inspection personnel can quickly assess and quantify the impact of process variables on the corrosion rate and the remaining life of piping, vessels, and other equipment handling dry fluorine.

Figures below demonstrate the operation of F2Compass. With F2Compass, corrosion prediction and materials selection for fluorine services are as easy as 1-2-3.

- (1) Select the material from the dropdown list,
- (2) Enter the temperature
- (3) Review the prediction results

F2Compass predicts the corrosion rate of the selected alloy at the specified temperature and the remaining life of the component under the prevailing operating conditions.

F2Compass®: Modeling & Prediction of Corrosion by Dry Fluorine Gas **Version 12.4.7**

Equipment ID	<input type="text" value="Piping #4"/>	
Material	<input type="text" value="AISI 304"/> ▼	
Age	years	<input type="text" value="3.000"/>
<input type="text" value="Nominal Wall Thickness"/> ▼	mm	<input type="text" value="2.000"/>
Temperature	°C	<input type="text" value="204"/>
Corrosion Rate	mm/y	0.164
Remaining Life	years	9.171

Figure 1 F2Compass Predicts the corrosion rate of alloys in dry fluorine gas services

Equipment ID	Piping #4
Material	SAE 1030 (trace Si) ▼
Age	AISI 304 AISI 304L AISI 309Cb AISI 310 AISI 316 AISI 347 Carbon Steel (0.007Si) ILLIUM R Inconel 600 Nickel 200 Nickel 201 Monel 400 SAE 1020 (0.22Si) SAE 1030 (trace Si)
Nominal Wall Thickness ▼	
Temperature	
Corrosion Rate	
Remaining Life	

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Figure 2 F2Compass is a cost-effective software tool for materials selection for dry fluorine gas services

The following corrosion resistant alloys for dry fluorine gas services are included in the corrosion prediction software:

AISI 304 Stainless Steel

AISI 304L Stainless Steel

AISI 316 Stainless Steel

AISI 347 Stainless Steel

AISI 309Cb Stainless Steel

AISI 310 Stainless Steel

Carbon Steel

ILLIUM R

Inconel 600 Alloy

Monel 400 Alloy

Nickel 200

Nickel 201

SAE 1020 (0.22Si)

SAE 1030 (trace Si)

More alloys will be added to the software database as and when corrosion data are available. If you cannot find the alloy of your interest in F2Compass software, do let us know and we will conduct the necessary research work to have your alloys included in the software.

The powerful applications of F2Compass are truly unlimited in engineering design, corrosion life prediction, and materials selection for dry fluorine gas services.

[Click here to contact us for licensing details and experience the power of F2Compass.](#)

F2Compass, giving you the right directions in F2 corrosion prediction and materials selection.

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