

## Elevance Clean® 1000

### Introduction

The following tables convey the results of a broad compatibility study of Elevance Clean® 1000. The information provided below can be used as a guideline to assist in material selection pertaining to the preparation of blends and finished products, product packaging and application uses. It is advisable that materials' compatibility be verified by the user assessing Elevance Clean® 1000 or compositions containing Elevance Clean® 1000, under the actual circumstances for processing and/or cleaning.

### Metals Compatibility<sup>1</sup>

Alloy	100% Elevance Clean® 1000	20% Elevance Clean® 1000	5% Elevance Clean® 1000
Aluminum (Al2024-T3)	A <sup>a</sup>	A <sup>a</sup>	A <sup>a</sup>
Clad Aluminum (Al2024-T3)	A <sup>a</sup>	A <sup>a</sup>	A <sup>a</sup>
Aluminum (Al7075-T6)	A <sup>a</sup>	A <sup>a</sup>	A <sup>a</sup>
Clad Aluminum (Al7075-T6)	A <sup>a</sup>	A <sup>a</sup>	A <sup>a</sup>
Aluminum (Al5083)	A <sup>a</sup>	A <sup>a</sup>	A <sup>a</sup>
Galvanized Mild Steel (C1010)	A <sup>a</sup>	A <sup>b</sup>	A <sup>b</sup>
Galvanized Steel (G90)	A <sup>a</sup>	A <sup>c</sup>	A <sup>c</sup>
Stainless Steel (304L)	A <sup>a</sup>	A <sup>a</sup>	A <sup>a</sup>
Stainless Steel (316L)	A <sup>a</sup>	A <sup>a</sup>	A <sup>a</sup>
Admiralty Brass (CDA443)	A <sup>a</sup>	A <sup>d</sup>	A <sup>d</sup>
Copper (CDA110)	A <sup>a</sup>	A <sup>d</sup>	A <sup>d</sup>

Rating <sup>2</sup>	Apparent Corrosion Rate (mmpy)	Rating <sup>1</sup>	Observations
A	± 10	a	No change
B	± 20	b	Speckled
C	± 30	c	More dull
-	-	d	Brighter

<sup>1</sup> ASTM F483-09 – Total Immersion Corrosion Test for Aircraft Maintenance Chemicals

<sup>2</sup> Boeing Document D6-17487 – Evaluation of Airplane Maintenance Materials

## Elevance Clean® 1000

### Plastics Compatibility<sup>1</sup>

Plastic	100% Elevance Clean™ 1000, 50 °C	20% Elevance Clean™ 1000, 50 °C	5% Elevance Clean™ 1000, 50 °C
Nylon	D	C	C
High density polyethylene	B	B	B
Acrylic	D	D	D
Polyvinylchloride (PVC)	D	D	D
Chlorinated PVC	D	D	D
Polypropylene	C	C	C
Polyethylene terephthalate	A	A	A

Rating	Criteria
A	No weight change
B	< 5% weight change
C	5-10% weight change
D	> 10% weight change

<sup>1</sup> ASTM D543-06 – Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents

### Seal & Gasket Compatibility<sup>1</sup>

Gaskets and Seals - 50 °C	100% Elevance Clean® 1000	20% Elevance Clean® 1000	5% Elevance Clean® 1000
Buna N	D	D	D
Fluoroelastomer (Viton®)	C	D	D
Silicone rubber	D	D	D
Red rubber	D	D	D
Nitrile rubber	D	D	D
Neoprene	D	D	D
EPDM rubber	D	D	D
Natural gum rubber	D	D	D
Fluoroelastomer (FKM)	C	D	D

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# Materials Compatibility

## Elevance Clean® 1000

Gaskets and Seals – RT	100% Elevance Clean® 1000	20% Elevance Clean® 1000	5% Elevance Clean® 1000
Buna N	D	D	D
Fluoroelastomer (Viton®)	D	D	D
Silicone rubber	D	D	D
Red rubber	D	D	D
Nitrile rubber	D	D	D
Neoprene	D	D	D
EPDM rubber	D	D	D
Natural gum rubber	D	D	D
Fluoroelastomer (FKM)	D	D	D

Rating	Criteria
A	No weight change
B	1-10% weight change
C	11-20% weight change
D	21% + weight change

<sup>1</sup>ASTM D7216-09 – Standard Test Method for Determining Automotive Engine Oil Compatibility with Typical Seal Elastomers (ERS modification)

### Formulations Tested

Ingredients, % by weight	100% Elevance Clean® 1000	20% Elevance Clean® 1000	5% Elevance Clean® 1000
Elevance Clean™ 1200	100	20	5
Geropon® SS-O-75	-	29	6
Lutensol® XP-89	-	7	2
Dowanol® DPM	-	4	-
Water	-	40	87

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