



# Nap-Gard®

## 7-0015

## Tan Internal Pipe Coating FBE

Revised: 10 October 2022

### DESCRIPTION

Nap-Gard® 7-0015 is a fusion bonded epoxy powder designed to provide reliable corrosion protection in severe down hole environments. Nap-Gard 7-0015 is formulated to provide an excellent flexibility and reliable corrosion protection for different line pipes and pumps. Nap-Gard 7-0015 is generally recommended for use over a phenolic primer (Nap-Gard 7-1808 Red Phenolic Liquid Primer) †.

### TYPICAL POWDER PROPERTIES

<b>Color:</b>	Tan	<b>Theoretical Coverage:</b>	113 Ft <sup>2</sup> /lb./mil
<b>Specific Gravity:</b>	1.70 ± 0.05	<b>Density:</b>	1700 ± 50 g/L
		CSA Z245.20-22	
<b>Typical Gel Time:</b>	55 ± 11 seconds	<b>Shelf Life:</b>	18 months
CSA Z245.20-22		Below 25°C (77°F)	
@ 205°C (401°F)		and 50% RH	

### TYPICAL PROPERTIES OF APPLIED FILM††

<b>Recommended Film Thickness</b>	Average	500µm (20 mils)
	Minimum	250µm (10 mils)

**Glass Transition Temperature (T<sub>g3</sub>)** ~110°C (230°F)  
**DSC**

<u>TEST / REQUIREMENT</u>	<u>METHOD</u>	<u>CRITERIA</u>	<u>RESULT</u>
<b>Bending</b>	CSA Z245.20-22	>5.8°/dia. Length @25°C	Pass
<b>Hardness</b>	ASTM D2583	Barcol	69 Average
	ASTM D2240	Shore D	88 Average
<b>Taber Abrasion</b>	ASTM D4060	C17 wheel, 1Kg, 1000 Cycles	87 mg removal

### AUTOCLAVE TESTING (Saudi Aramco 09-SAMSS-091)

#### Wasia Water Service

<u>Gas Phase</u> 100% CO <sub>2</sub>	<u>Temperature</u> 95°C (203°F)	<u>Pressure</u> 3000 psi	<u>Duration</u> 24 Hrs.	<b>Results</b> Pass all phases No blisters No cracking No adhesion loss No delamination No swelling
<u>Aqueous Phase</u> Wasia water				

#### Brine Reinjection Wet, Sour Gas or Crude

<u>Gas Phase</u> 3 mole% CO <sub>2</sub> , 3 mole% H <sub>2</sub> S 94% mole% Methane	<u>Temperature</u> 95°C (203°F)	<u>Pressure</u> 3000 psi	<u>Duration</u> 24 Hrs.	<b>Results</b> Pass all phases No blisters No cracking No adhesion loss No delamination No swelling
<u>Aqueous Phase</u> Formation water brine				

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## RECOMMENDED APPLICATION PARAMETERS

<b>Surface Preparation</b>	NACE SSPC Swedish Standard	#1 White Metal SP-5 Sa 3
<b>Anchor Profile</b>	Recommended Range Nominal	1.5 mils (38µm) - 3.5 mils (89µm) 2.5 mils (64µm), sharp, dense
<b>Liquid Phenolic Primer Dry Film Thickness</b>	Recommended Range	0.5 mils (13µm) - 1.0 mils (25µm)
<b>Cured Powder Film Thickness</b>	Recommended Range	10 mils (250µm) - 20 mils (500µm)
<b>Preheat Temperature</b>	Recommended Part Surface Temperature Range	375°F (191°C) - 425°F (218°C)
<b>Cure Schedule</b>	Recommended Oven Temperature Time Required for Full Cure	375°F (191°C) – 20 min 400°F (205°C) – 15 min 425°F (218°C) – 12 min

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## TRANSPORTATION AND STORAGE

The material is stable during transportation and storage at temperatures below 25°C (77°F) and 50% RH.

Always consult product Safety Data Sheet (SDS) prior to handling.

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