

# SMI, Inc.

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Attn: Marc Rutten  
Diamond Cleaning Products B.V.B.A.  
Schaggeleweg 53  
B-2390 West Malle BELGIUM

Date: 25-Jan-2001

SMI/REF: 00AUG452

Product: **DCP BIOX 256** (received 29-Nov-2000)

Maximum Concentration: As received (concentrate)

Maximum Temperature: 60°C

Minimum Temperature: 10°C

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AMS 1537A CLEANER, ALKALINE  
Hot-Tank Type

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3.2.1	Total Immersion Corrosion	<u>Conforms</u>
3.2.2	Sandwich Corrosion	<u>Conforms</u>
3.2.3	Solubility	<u>Conforms</u>
3.2.4	pH Value	<u>Conforms</u>
3.2.5	Flash Point	<u>Conforms</u>
3.2.6	Cleaning Performance	<u>Conforms</u>
3.2.7	Storage Stability	<u>Not performed</u>

Respectfully submitted,



Patricia D. Viani, SMI Inc.

Client: Diamond Cleaning Products  
Product: **DCP BIOX 256**

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AMS 1537A

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3.2 Properties: The cleaner shall conform to the following requirements; tests shall be performed in accordance with specified test methods.

3.2.1 Total Immersion Corrosion: The product shall neither produce evidence of corrosion nor cause weight change of any panel greater than that shown in Table 1 determined in accordance with ASTM F 483 at highest concentration and temperature recommended for the cleaner by the manufacturer.

TEST PANEL	WGT CHANGE mg/cm <sup>2</sup> /24hrs	
	ALLOWED	FOUND (concentrate / 60°C)
AMS 4037 Al Alloy, anodized per AMS 2470	0.3	+ 0.06
AMS 4041 Al Alloy	0.3	< 0.01
AMS 4049 Al Alloy	0.3	< 0.01
AMS 4376 Magnesium, dichromate treated per AMS 2475	0.2	< 0.01

*Tested using the concentrated product at 60°C*

Result Conforms

3.2.2 Sandwich Corrosion: Specimens shall pass the sandwich corrosion test, determined in accordance with ASTM F 1110.

	2024-T3 Bare Anodized	2024-T3 Alclad	7075-T6 Bare Anodized	7075-T6 Alclad
Concentrate	1	1	1	1
Dilute (20 %)	1	1	1	1
CONTROL	1	1	1	1

Result Conforms

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3.2.3 **Solubility:** The product shall be readily soluble in water at maximum concentration and minimum temperature specified by manufacturer.

***Readily soluble in water at a 20 %; 10°C.***

Result Conforms

3.2.4 **pH Value:** Shall be between 9.0 and 11.5 on a 5% by volume solution, determined in accordance with ASTM E 70 at room temperature, making no correction for sodium ion.

***pH (5 percent): 11.1***

Result Conforms

3.2.5 **Flash Point:** Shall be not lower than 70°C (158°F), determined in accordance with ASTM D 56 or other method acceptable to purchaser.

***(as received): No flash to 160°F***

Result Conforms

3.2.6 **Cleaning Performance:** The prepared cleaning solution shall remove not less than 70% of the soil on panels prepared and tested in accordance with 3.2.6.1 and 3.2.6.2. *Tested using a 20 % dilution*

***Average of 72.4 % of soil removed.***

Result Conforms

3.2.7 **Storage Stability:** The product shall be tested in accordance with ASTM F 1104. The stored cleaning compound shall give a cleaning ability value not less than 90% of that obtained with original compound when tested in accordance with 3.2.6.

Result Not performed