

## TEST REPORT

In follow up to report 9903035-SS dated 21 March 2000 from SMI where Ceebee A18S is tested to AMS1550B are here the additional tests for AMS1453.

MATERIAL TESTED : Cee-Bee A-18S  
 LOT N° : 03-04-63  
 APPLICATION : Cleaner disinfectant  
 MANUFACTURER : McGean-Rohco, England  
 TESTED BY : Ann Zelderloo  
 TEST DATE : May 2003  
 SPECIFICATION : AMS 1453, Disinfectant cleaner for aircraft interior.  
 General purpose liquid.

### SANDWICH CORROSION (ASTM F1110)

alloy	requirements	Conc. product	10% product	synt. tap water
7075T6 anod.	max 1	0	0	0
A2024T3	max 1	0	0	0
2024T3 anod.	max 1	0	0	0

### TOTAL IMMERSION CORROSION (ASTM F483)

alloy	Weight change (mg/cm <sup>2</sup> /24h)			Visual examination		
	req.	conc	10 %	req.	conc	10 %
2024T3 anodized	max.0.30	0.0	0.0	no corr	no corr	no corr
Ti 6AL4V	max.0.10	0.0	0.0	no corr	no corr	no corr
C-steel	max.0.80	0.0	0.0	no corr	no corr	no corr

### Low-Embrittling Cadmium Plate (ASTM F1111)

alloy	Weight change (mg/cm <sup>2</sup> /24h)			Visual examination		
	req.	conc	10 %	req.	conc	10 %
4130 steel Cd plated	max.0.30	<b>1.28</b>	<b>0.64</b>	no corr	no corr	no corr

\* The results are only applicable to the tested objects.

\* This report contains 2 page, and may not be reproduced unless it is presented in its entire form.

\* Sabena materials engineering is not responsible for the representativeness of the samples.

## HYDROGEN EMBRITTLEMENT (ASTM F519 Type 1C)

- . stress level : 45 % ultimate load
- . time : 150 hours
  
- . result : . **concentrated : 3 bars broken within 150 hours.**
- . 10 % : no fractures within 150 hours

## EFFECT ON UNPAINTED SURFACES (ASTM F485)

- Ti 6Al4V : conc. : no effect
- 10 % : no effect

## CONCLUSION

The fluid does not conform to the requirements of AMS1453. The concentrated and diluted fluid gives weight changes higher than 0.3 mg/cm<sup>2</sup>/24h on low-embrittling cadmium plate and the concentrated fluid does not pass the Hydrogen embrittlement test.

Operator : Ann Zelderloo  
Date : 20 May, 2003

Supervisor : I. Paulus