

**SAE G-12 Fluids Subcommittee  
Montréal, November 2010**

**2010 Ballot  
Update  
of  
AS5901 B**

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Laboratoire international  
des matériaux antigivre

**LIMA  AMIL**

Anti-icing Materials  
International Laboratory

# **AS5901 Standard**

## **Water Spray and High Humidity Endurance Test Methods**

**for**

## **SAE AMS 1424 and SAE AMS 1428 Aircraft De-icing/Anti-icing Fluids**

# 2010 Ballot - AS5901B

## Revision B included;

- ✓ **Some minor editorial changes**
- ✓ **Clarifications (procedure)**
- ✓ **Add details and references**

## Main Proposed Change - Table 1

**TABLE 1 - WATER SPRAY AND HIGH HUMIDITY  
ENDURANCE TESTS CONDITIONS**

PARAMETER	TEST REQUIREMENT	
	WSET	HHET
Air Temperature	-5.0 °C ± 0.5 °C (23 °F ± 1 °F)	0.0 °C ± 0.5 °C (32 °F ± 1 °F)
Test Plate Temperature	-5.0 °C ± 0.5 °C (23 °F ± 1 °F)	
Relative Humidity	-	More than 80%
Horizontal Air Velocity	-	0.20 m/s ± 0.05 m/s
Test Plate Slope	10.0° ± 0.2° from horizontal	
Test Plate Surface Roughness (average)	$R_a \leq 0.5 \mu\text{m}$	
Average Droplet Diameter	20 μm ± 2 μm	Not greater than 4 μm
Average Icing Intensity	5.0 g/dm <sup>2</sup> /h ± 0.2 g/dm <sup>2</sup> /h	0.30 g/dm <sup>2</sup> /h ± 0.05 g/dm <sup>2</sup> /h (less than 10 hours) 0.3 g/dm <sup>2</sup> /h ± 0.1 g/dm <sup>2</sup> /h (more than 10 hours)
Minimum Test Duration	30 minutes	2 hours

## Draft revision "B" for 28 day ballot to Committee

Submitted → 2010 September 24<sup>th</sup>

Closed → 2010 October 21<sup>st</sup>

Approval	Disapproval	Waive	Participation
27	0	0	27/40
67.5 %	0 %	0 %	67.5 %

## **AS5901B 28 day ballot to Committee**

➤ **Received comments/suggestions:**

✓ **all editorial in nature**

➤ **They were addressed**

# AS5901B 28 day ballot to Aerospace Council

Submitted → 2010 October 28<sup>th</sup>

Due → 2010 November 24<sup>th</sup>

Approval	Disapproval	Waive	Participation
3	0	0	3/24
12.5 %	0 %	0 %	12.5 %

**Ballot in Progress**

# **AS5901B Status**

**AS5901B Standard  
Should be  
Approved and Published  
end of 2010**