



## Technical Bulletin

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This bulletin is a direct translation of the Test Report showing Super Spacer IG units passing all five phases of the Chinese "GB11944-1989" Test Standard for Insulating Glass Units. The original version of the test report is available upon request.

National Glass Quality  
Supervisory and Testing Centre

Report Serial Number:  
WT-2001-(01)Z78-0284

### TEST REPORT

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Samples	IG (Super Spacer + HMB)	IG Unit Specification	510 X 360 (4+12+4)mm
Company	Edgetech IG Inc.	Testing Class	Sent samples
Manufacturer	Qin Huang Dao Haiyan	Sample Class	NA
Samples picked by	NA	Date for sample picked or sent	August 01, 2001
Sample base number	NA	Sample condition	Good
Sample quantity	20	Date for sample production	NA
Testing Standard	GB11944-1989	Testing	All five tests
C O M M E N T	These samples meet the technical requirements of "IG" standard GB11944-1989  PASS  (Lab certification Seal) November 13, 2001		
Note	This report is valid for the sent samples only		

Prepared by:

Checked by:

Approved by:

National Glass Quality Supervisory and Testing Centre  
Attachments to the Testing Report

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Type: Insulating Glass (Super Spacer + HMB)

Company	01Z78	Sample Size and thickness (mm)		510 x 360 (4+12+4)
Test Standard	GB11944-1989	Sample No.	Test Result	Comment
<b>Dew Point</b>	Place the Dew Point instrument on the sample surface for 3 minutes when it reaches $\leq -40^{\circ}\text{C}$ . All the samples should not contain any condensation and frost inside of the air spacer.	1 - 20	No condensation and no frost inside of air space of all the samples when temperature is $-40^{\circ}\text{C}$ .	PASS
<b>Seal Integrity</b>	When the test pressure is lower than the environment pressure $10 \pm 0.5\text{Kpa}$ , the thickness of the IG units must increase more than 0.8mm (for 4+12+4 mm standard sample).	1 - 20	All the samples' thickness increase more than 0.8mm.	PASS
	At this pressure for 2.5 hours, no leak if the tolerance of the increase in the thickness of all the samples is less than 15%. No leak is allowed for all the samples.	1 - 20	The increases of all the tested samples are less than 15%.	PASS
<b>UV Exposure</b>	UV lamp (40W/m, 300W) for 168 hours, there are no chemical fogs or trace of contaminations.	1 - 2	There are no chemical fogs or trace of contaminations.	PASS
<b>HH and Weathering Cycle Tests</b>	WC for 320 cycles (1440 hours), HH for 224 cycles (672 hours). Conduct the dew point test ( $\leq -40^{\circ}\text{C}$ ) after the HH and WC of the 12 tested samples, at least 11 samples have no condensation and frost inside.	3 - 14	All the 12 tested samples have no condensation and inside the $-40^{\circ}\text{C}$ .	PASS