

AVTEC BSS 7239 Toxic Gas Analysis Test

The results were obtained from a 5/8" thick balsa cored panel with vinyl ester and glass surface skins coated with Thermashield®. The panel was exposed according to the BSS 7239 test protocol for a four minute exposure to 2.5 kW/cm² in the flaming mode. Colorimetric Gas Detection Tubes were used in the toxic gas analysis. The tests were conducted and certified by VTEC Laboratories, Bronx, New York. At no time did the test flame front penetrate the vinyl ester surfaces or corrupt the balsa wood core.

Ambient Temperature 47°F, Relative Humidity 0.65, Bar. Pressure 29.91 in. Hg¹
Specimen wgt. 49.7g, ² Specimen wgt. 52.6g 45psi pressure

Gas	Corrected PPM¹	Corrected PPM²	Average PPM	Std. Deviation PPM	U.S Passenger Rail Requirements For Interior Use (PPM)
CO	270	200	235	49.497	< 3500
HCN	5	5	5	0	< 150
SO₂	0	0	0	0	< 100
HCL	1	1	1	0	< 500
HF	0	0	0	0	< 200
NO	40	20	30	14.42	< 100
NO₂	4	2	3	1.414	< 100

