

Specifications Board  
Supply and Services  
Canada

Standard for:

Thermal Insulation, Mineral Fiber,  
for Piping, Ducting, Machinery  
and Boilers

**CGSB 51-GP-11M**

Monoglass Vibration Test conducted in accordance with  
Classification **Type 1** -

Resilient flexible blanket  
for use with surface  
temperatures below  
180°C.

**Vibration Resistance** - Weigh a  $5 \pm 0.01g$  representative sample of the insulation prior to testing by applying it to a heated surface 180°C for 96 hours. Remove and dry the specimen for 24 hours at 105°C, then weigh after cooling in a desiccator. Clamp the specimen at both ends to a vibration surface having a transverse reciprocal motion of 12 Hz with an amplitude of 3.3 mm for a period of 96 hours. Remove the specimen, dry it for 24 hours at 105°C and reweigh after cooling in a desiccator. Report the loss in mass as a percentage of the mass before vibration.

|                              |       |
|------------------------------|-------|
| Density (kg/m <sup>3</sup> ) | 73.1  |
| Initial weight (g.)          | 462.2 |
| Final weight (g.)            | 462.1 |
| Weight loss (%)              | 0.02  |

CGSB 51-GP-11M requirement: 0.5% maximum

As shown in the above Table, the sample meets with the requirements for vibration resistance.

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**Ontario Research Foundation**  
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