



ESPY® SENSING COMPONENT TUBE ADAPTERS

Seal Integrity and Functionality Verification at Various Temperatures

Espy® sensing component tube adapters are specified to withstand temperatures up to 392°F (200°C). The seal integrity and functionality of each standard Espy® tube adapter (1/4", 3/8", 1/2", 3/4" and 1" sizes) were verified during this test. The testing was performed at 68°F (20°C) and 392°F (200°C).

Test Method

Tube adapters were tested while mounted on standard-wall FluoroLine® PFA tubing and filled with fluid. The assemblies were exposed to the predetermined temperatures, and water was dripped over the external surfaces to simulate indirect fluid exposure resulting from wash down. After thorough water exposure, both the seal integrity and the tube adapters' ability to sense liquid inside the tube were verified.

Results

	1/4" Tube Adapter		3/8" Tube Adapter		1/2" Tube Adapter		3/4" Tube Adapter		1" Tube Adapter	
	Seal Integrity	Function	Seal Integrity	Function	Seal Integrity	Function	Seal Integrity	Function	Seal Integrity	Function
68°F (20°C)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
392°F (200°C)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Conclusion

The seal integrity and functionality of all standard Espy® tube adapters passed this test at each temperature, verifying the maximum temperature specification of 392°F (200°C).

For More Information

Contact your local Entegris distributor or visit Entegris' Web site at www.entegris.com.

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NT INTERNATIONAL, An Entegris Company

5155 East River Road / Minneapolis, Minnesota 55421 USA
Customer Service Tel. 763-502-0200 or Toll Free 877-503-0200 / Customer Service Fax 763-502-0300
www.entegris.com / www.nt-intl.com

ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA
Tel. 952-556-3131 / Fax 952-556-1880
www.entegris.com