

PRESS RELEASE

The AMTEC test machine is the most advanced gasket and sealing material test device in the world. More than 20 units have been sold around the world. It is capable of carrying out all the major specification tests that exist and in particular all the US PVRC tests such as the ROTT, ATRS & HOBT tests and the EN 13555 tests as well as a whole raft of DIN & BS tests. It is also capable of user defined tests and specials such as the Shell Environmental Tests and the German TA Luft test.

The system is fully computer controlled & runs to termination of a test, this can take two days, without any manual intervention once the parameters have been set & the test initiated. The maximum load capability is 1 MN (100 tons), the ESH is 3MN. The maximum gasket sealing element / test gasket diameter is 178 mm which is far less than for the ESH but which is sufficient for all of the regularised tests mentioned previously. The tests can be carried out under load at up to 600°C, above the service maximum of most sealing materials, and leakage rates can be measure up to that temperature – we will therefore be able to produce some stunning Thermiculite data. Leakage rates are able to be measured by a mass spectrometer down to 10⁻¹² mg/m/s or, at very elevated temperatures, down to 10⁻⁴ mg/m/s by a differential pressure method.



Flexitallic has invested in this device for the following reasons:

1. To ensure that Flexitallic can stay at the leading edge of the development of sealing materials and gaskets incorporating them by improving the understanding of the relationship between material structures and their performance as a sealing material & by allowing the testing of new gasket offerings under realistic service conditions.
2. To allow us to determine the shortcomings of competitive materials & gaskets.
3. To gain a better understanding of sealing mechanisms.

Flexitallic[®]
MARKETING DEPARTMENT