

TECHNICAL SPECIFICATIONS FOR GASKETS MANUFACTURED

			Results to be	Toplesuirmert	Results
No.	Requirements	Tests to be carried out	obtained	Test equipment	obtained
1	Seal at - 40° C	Exposure of product to - 40° for 12 h.	No cracks or weakening of the structure.	Stereoscopic microscope G: 20X	No cracks or weakening of the structure, No tearing of the structure. Seal to IP X6 standard after testing.
2	Seal at + 70° C	24 h.	structure.	Stereoscopic microscope G: 20X	No separation from the support or weakening of the structure. Seal to IP X6 standard after testing.
r	Impermeability	Immersion of product for 2 hours under 5 cm of water.	the nominal weight of the gasket (weighing before and after).	9	Water absorption no more than 2%.
4	Load strength	Measurement of the force required to sink a 100 mm long blade on a thickness of 1.5 mm up to the required height.	with H = 3.3 mm F> <4 daN.	Dynamometer	Measurement on an average of 24 parts: 3 daN.
5	Elastic flow	Compression F applied to the gasket for 22 hours at 70° C.	10 min after relaxation to ambient, residual deformation must not exceed more than 10% of the initial thickness of the gasket.	Gauge	After exposure to pressure for 22 hours at 70° C, residual deformation is less than 10%.
6	Adhesion to epoxy- polyurethane paints	1 m/min.	Tear strength must be > 2.5 N for each cm of width of the gasket.		Good adhesion obtained without dusting the support before fitting the gasket.
7	Fire resistance	Incandescent wire test according to NF 20455 at 550°.	t <30s after removing the wire.	Incandescent wire * chronometer	Gasket classified 550° C/30 seconds.
8	Sealing	IP 55 - IP 60	No infiltration into the protected volume.	S ^{VT} at 070	IP 60 where IP 55 requested and IP 60 where IP60 requested.
9	Ozone resistance	70 h at an ozone concentration of 50 pphm at a temperature of 38° C, in conformity with Flat standard 50417, with gasket in operating condition	magnification	Stereoscopic microscope G: 8X	At the end of the test, none of the 3 sections of gasket exposed to ozone presented visible cracks when magnified 6 times. According to the classification provided for by the standard, all parts are constructed to ment index 6.
10	Resistance to thermal cycles Resistance to humid heat Resistance to heat shock	10 cycles each consisting of 4 h at 90 +/- 2°C, 4 h at -40+/- 2°C 200 h at 40 +/-2° C with R:H. > 90% 1 h at 120° +/- 2° C 2 h at 100° +/- 2° C	No cracks visible at 2X magnification. Reduction of properties < 25%. Test under operating conditions: 24h. In waterbox, no infiltration allowed.	Stereoscopic microscope G 2X Dynamometer	Waterbox test on new parts. OK, Waterbox test after accelerated ageing: OK.
	Tests 1 to 8 carried out at the Legrand Normandie laboratories in France.	Test 9 carried out at the Prototipo Spa laboratories in Turin, on behalf of Webasto Spa	Tests 10 to 12 carried out at the Webasto laboratories. Turin.		