

Chemical and Material Compatibility Test

Summary

Engineer: Travis Thibodeaux Test Duration: Four Weeks Temperatu	e: Set

Chemical GT-157 - Test results for elastomers.

Material:	FKM	HNBR	NBR	Neoprene
Rating @ 140 °F	С	Α	В	В
Rating @ 200 °F	С	Α	В	В

- 1.) FKM = (A Type Fluorocarbon or Viton)
- 2.) NBR = (Nitrile Rubber or Buna N)
- 3.) HNBR = (Hydrogen Nitrile Rubber)
- 4.) Neoprene = (Chloroprene Rubber or CR)

Chemical GT-157 - Test results for metals.

Material:	1018	304	316
CR (mpy) @ 140 °F	0.24	0	0
CR (mpy) @ 200 °F	0.42	0	0

Note: In most applications 2mpy is acceptable.

CR(mpy) = (534)(mass loss)
D A T
D= Density
A= Surface Area
T= Time (hrs)

- 1.) 1018 = Low Alloy Steel
- 2.) 304 = Stainless Steel
- 3.) 316 = Stainless Steel

Chemical GT-157- Test results for thermoplastics.

Material:	Nylon	HDPE	PP	PVC	Teflon
Rating @ 140 °F	Α	Α	Α	Α	Α
Rating @ 200 °F	Α	Α	Α	Α	Α

- 1.) Nylon = (Virgin 11)
- 2.) HDPE = (High Density Polyethylene)
- 3.) PP = (Polypropylene)
- 4.) PVC = (Polyvinylchloride)
- 5.) Teflon = (Polytetrafluoroethylene)

*Rating Key: A = This material is compatible with this chemical at this temperature.

B = This material is usable in this environment but, is not recommended.

C = This material is not recommended; not compatible.