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Derouging and Passivation with Diruneutra, and Substrate compatibility

If clean utility system gaskets and elastomers are due for replacement, it is recommended that they are replaced prior to derouging and passivation with the Diruneutra process. The Diruneutra process does not negatively impact any of the substrates listed below, nor does it generate any residue or particulate at any time throughout the process. Furthermore, it is impossible to generate particulate as the solution is pH neutral and bound by a strong chelating agent. We prefer that the system NOT be opened after the Diruneutra derouging and passivation process is complete. This reduces the potential for contamination by outside air, fingers and/or tools.

For substrate compatibility with the Diruneutra process, please refer to *table 1*.

The reason that elastomers were historically replaced after passivation procedures was due to the nature of outdated conventional passivation methods utilizing acids and bases in concentrated form. These concentrated acidic solutions were notorious for generating massive amounts of particulate upon neutralization of the effluent. These particulates would leach into and behind gasket surfaces consequently producing prolonged water quality problems for extended periods of time. This problem was reduced somewhat, but not eliminated by changing elastomers upon completion of the conventional passivation process.

Regards,
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Table 1

a) Plastic:

- PP
- PVC
- PE
- PTFE
- PVDF
- EPDM
- Silicone
- PEEK

b) Stainless steel:

- 1.4301
- 1.4401
- 1.4404
- 1.4435
- 1.4571
- 1.4539

c) Glass