



Technical Bulletin

Place a copy of this bulletin in the front of each Blueprints Manual.
Redline drawings as needed and include a TB reference note.
Reference TB implementation on site Action Item Box-chart and/or
site tool history management log.

Number: 061
Date Issued: 03/01/07
Expiration Date: None

Subject/Key Words:	Ozone Gas Leaks; Kel-F tubing; PFA Tubing		
Classification:	<input checked="" type="checkbox"/> Informational	<input type="checkbox"/> Mandatory	<input type="checkbox"/> Safety Alert
	<input type="checkbox"/> Warranty Impact	<input type="checkbox"/> Purchase Parts	<input type="checkbox"/> No Charge For Parts expires ___/___/___. Reference this TB# when ordering NC parts.
Akrion Procedures:			

Issue: Ozone flow kits plumbed with Kel-F (PCTFE) tubing may be prone to leaks. Although the Kel-F may be less permeable than PFA tubing, this advantage is offset by its propensity to become brittle and crack after prolonged exposure to high-concentration ozone.

Symptoms: Gas leaks revealed by routine inspections or ozone concentration monitoring equipment.

Test/Validate: Check your ozone flow system blueprints and BOMs for indications that Kel-F tubing was used on the system.
Most Kel-F flow systems were ECO'd back to PFA tubing in Q3 2006, and production changed back to all PFA tubing thereafter.
Some systems manufactured post Q3 2006 - although noted as having Kel-F on the BOM - were actually fitted with PFA. A recent cleanup ECO has captured all remaining kits to correctly call out the use of PFA tubing.

Solution: Replace suspect Kel-F (PCTFE) tubing with PFA tubing. Redline the ozone system blueprints in the field so 1/4" Kel-F tubing part number TUB3A0007 is corrected to 1/4" PFA tubing number TUB001012.
Replace Kel-F tubing as needed, or as a preventive measure.

If you have technical questions or require more information, please contact Akrion Technical Support Department via e-mail at techsupport@akrion.com. Authorized service personnel can obtain copies of the latest Akrion procedures and controlled documents from the Akrion Document Control department at doccontrol@akrion.com. Customers must direct all inquires to their local Akrion field service representative. (Form QA1656F1AC)