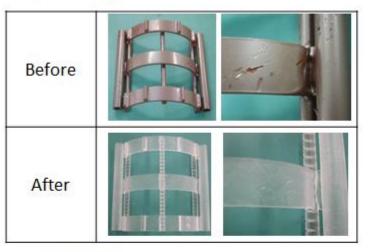
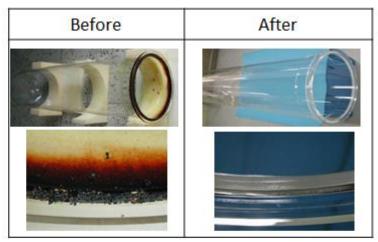


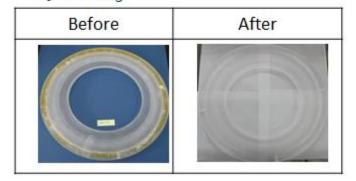
Quartz Boat



Quartz Outer Tube



Quartz Ring





Belljar



Comparison of Cleaning Test for Si₃N₄ Film on Quartz

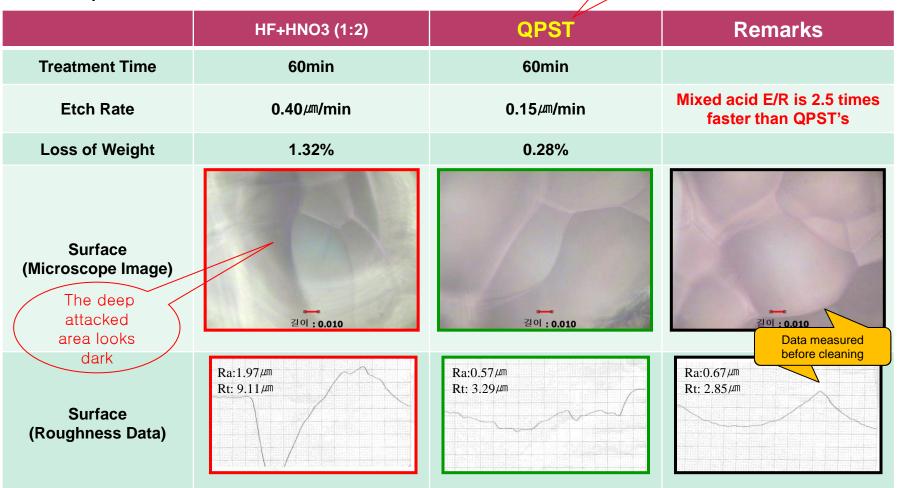
Comparison of HF VS QNST Solution

	HF (25%)	QNST	Remarks
Treatment Time	60min	60min	
Etch Rate	0.44 <i>⊭</i> ⊓/min	0.11 <i>μ</i> m/min	HF E/R is four times faster
Loss of Weight	1.36%	0.34%	
Surface (Microscope Image)	(×2000) 크이: 0.010	(×2000) — 길이 : 0.010	(×2000) → 월이: 0.010 Data before cleaning
Surface (Roughness Data)	Ra:0.614m	Ra:0.03 μm Rt: 0.30 μm	Ra:0.01 \(\mu\mathrm{m}\) Rt: 0.13 \(\mu\mathrm{m}\)

Comparison of Cleaning Method for Poly-Si film on Quartz



◆ Comparison of HF+HNO3 VS QPST Solution





Health & Environmental Premium // Wall : Less Reactive gases

- Mixed Acid(HF+HNO3) VS Jiwon Chemical (QPST)
- Experimental procedure: Captured one liter of outgases from each jars where 1g of Si piece is resolved in. And then measured the outgases volume through the test agency.
- Photos of reactive jars



Captured gas volume data

