

World Class Cleaning Solutions

Case Study

Spray Wash Process to Clean Inconel and Titanium Rotating Parts Prior to FPI

CUSTOMER DETAILS

Product: Jet Engines

Parts Cleaned: Rotating Jet Engine Parts

Removing What Soil(s): Mostly coolants, lubricants, Zyglo.

Why are Parts Degreased: Parts must cleaned after every operation by a GE approved cleaner to a

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GE spec.

CUSTOMER PROCESS BRULIN REPLACED

Current Chemistry: AquaVantage 1990 GD **Concentration:** Range from 2% to 5% **Washer Type:** One Kemec, 5 BE, 3 Stoeltings

Specific Metals: Inconel, Titanium **Temperature:** 140°F-150°F (60°C- 65°C)

Time/Line Speed: 10 min. wash, 10 minute rinse

Customer Improvement Requested: Initially looking for better cleaning pre-FPI Cleaning in Kemac washer. Kemac washer was moved in plant closer to FPI Cell and after Zyglo adhesion was poor. Maintenance checked washer and couldn't find a mechanical issue with washer. Customer tested

AquaVantage 3887 GD and zyglo adhesion improved dramatically.

BRULIN IMPLEMENTED PROCESS

Chemistry: AquaVantage® 3887 GD

Concentration: 2-5% Temperature: 140°F (60°C)

Time/Line Speed: 10 Min. wash, 10 Minute rinse

Dry: 15 Minutes

RESULTS

Excellent cleaning and no interference with FPI process.

REASON BRULIN WON

Zyglo adhesion improved dramatically