

FACT SHEET

# VERIFICATION OF PART CLEANLINESS

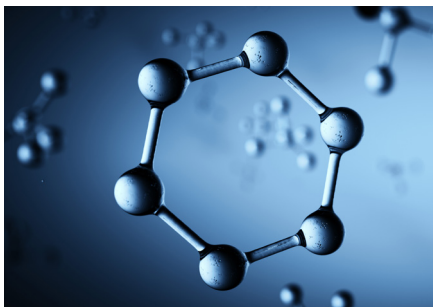
Helping you maintain cleanliness throughout the nuclear supply chain

**Intertek is your one-stop swabbing solution supporting the nuclear industry supply chain. We offer a comprehensive package of on-site and laboratory testing. Let us prove how good you are.**



### Nuclear Service Requirements

Nuclear service requires systems and components to be proven / certified clean during fabrication and assembly. Intertek offers a comprehensive package of on-site testing to support the nuclear supply chain.



**Nuclear power continues to play a vital role in supplying energy as a cost-effective, clean and reliable source of electricity.**

**We support the industry with Total Quality Assurance services that maintain safety, performance and reliability.**

### Anionic & Metallic Contamination

We verify that your parts such as heat exchangers, piping, valves, etc. are free from debris from both anionic and metallic contamination via a range of methods.

#### Anionic Contamination

- Supply and analysis for in-situ swab testing for halides and sulphate
- Total immersion testing, analysis of leachate for pH, conductivity and anionic contamination for:
  - Fluoride (F)
  - Chloride (Cl)
  - Bromide (Br)
  - Phosphate (PO<sub>4</sub>)
  - Sulphate (SO<sub>4</sub>)
  - Nitrate (NO<sub>3</sub>)
  - Oxalate (C<sub>2</sub>O<sub>4</sub>)

#### Metallic Contamination

- Parts washing to BS EN ISO 23208, ASTM F303 or customer specifications
- Contamination analysis (SEM-EDX & FT-IR)



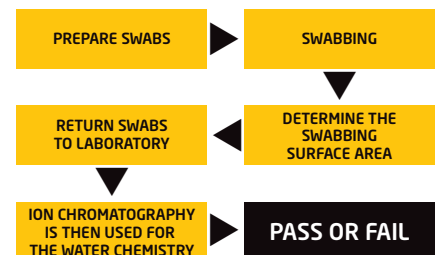
### Analysis of Non-Metallic Materials

Intertek provides analysis of a wide variety of samples for many elements including low melting point metals and halides. Direct mercury analysis is also available.

### Water Analysis

Analysis of demineralised water for pH, conductivity and anionic contamination.

### Verification of Part Cleanliness Process



### FOR MORE INFORMATION

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