



Cleaning Procedures Vacuum Parts

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Abstract:

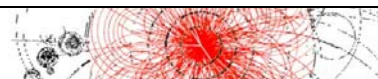
Nikhef cleaning procedures of STAINLESS STEEL and ALUMINUM parts which will be used in (Utra High) Vacuum

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Distribution list:



Cleaning AISI and Al at NIHKEF

STAINLESS STEEL

1. Pre Clean
2. Bath 1:
 - 7553 Extran **MA 03** (Merck)5%/ demineralized water.
 - Temperature 40 degrees Celsius.
 - Duration of contact: 30 to 90 minutes (depending upon the degree of pollution).
 - Agitation: Ultrasonic or manually (sponge).
3. Bath 2:
 - (High pressure) cleaning with tap water.
4. Bath 3:
 - Immerse in demineralized water of 40 degrees Celsius.
 - Agitation: circulation pumping.
 - Duration of contact: 10 minutes.
5. Bath 4:
 - Immerse in demineralized water of 90 degrees Celsius.
 - Duration of contact: 10 minutes.
6. Drying with jet of nitrogen, technical quality.
7. For application in vacuum the items have to be baked out and sealed.

ALUMINUM

1. Pre Clean
2. Bath 1:
7553 Extran **MA 02** (Merck) 5%/l demineralized water.
Temperature 40 degrees Celsius.
Duration of contact: 30 to 90 minutes (depending upon the degree of pollution).
Agitation: Ultrasonic or manually (sponge).
3. Bath 2:
(High pressure) cleaning with tap water.
4. Bath 3:
Immerse in demineralized water of 40 degrees Celsius.
Agitation: circulation pumping.
Duration of contact: 5 to 10 minutes.
5. Drying with jet of nitrogen, technical quality.
6. For application in vacuum the items have to be baked out and sealed.