



Cage Code: 0WUA8

CLEANING PRODUCTS FOR AEROSPACE & DEFENSE  
OEM APPROVAL LIST

COMPANY	Solvents <sup>1</sup>											Aqueous	Vapor Degreasing		Wax Masking
	AXAREL®								BIOACT®			CleanSafe™	LENIUM®		AEROWAX™
	56	1000	2000	3000	4000	4100	6100	9100	105	121	280/280E	787C	ES/GS/XS	FHD	MT
Airbus		.	.	.	.				.						
Bell Helicopter							.		.						
Boeing Company	.	.	.	.					.		.				NR
Bombardier								.	. 2						
CFM								.		.	.				
GE Aviation								.		.	.				
Goodrich Actuation Systems						.	.								
Goodrich Landing Gear												.			
GulfStream Aerospace								.							
International Aero Engines (IAE)								.		.	.				
Honeywell Aerospace		.	.	.	.			.			.				
Lockheed Martin		.	.	.	.		.					.			
Messier-Dowty	.										.				
Department of Defense (DoD)		.	.	.	.										
Pratt & Whitney		.	.	.				.		.	.				.
Praxair												.			
Rolls-Royce						.	.	.	.	.	.			.	NR
Scott Aviation												.			
Spirit AeroSystems											.				
Turbomeca											.	.	. 2		
United Airlines								.							

1 - Includes blended solvents, bio-based cleaners, semi-aqueous cleaners and manual cleaners 2 - Approval Pending NR - Not Required

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Products	Approvals/Test Method Conformance
<p><b>AXAREL® 56</b></p> <p><b>Type:</b> Semi-Aqueous</p> <p><b>Application:</b> Immersion Spray</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Boeing</b> as PSD 6-3 for BAC 5200 Cleaning, Preserving &amp; Re-lubricating Anti-friction Bearings, Method II A Pressure Spray Cleaning</li> <li>• Approved by <b>Boeing</b> BAC 5763 Type II Emulsion Cleaning &amp; Aqueous Degreasing (5-25% in Spray; 5-100% in immersion)</li> <li>• Supported by <b>Hawker Pacific Aerospace, UK, Ltd.</b> as a Diphase Cleaning/Degreasing Chemical</li> <li>• Approved by <b>Messier-Dowty</b> PCS-2620 for use on all materials and coatings on Messier-Dowty parts (Memo LMP 09/031)</li> <li>• ASTM F519</li> </ul>
<p><b>AXAREL® 1000</b></p> <p><b>Type:</b> Solvent</p> <p><b>Application:</b> Manual Cleaning Immersion Airless Vacuum</p>	<ul style="list-style-type: none"> <li>• Approved under <b>MIL-PRF-680B</b> Degreasing Solvent Type I Low Flash Point (Military Symbol SD-1) (DS-0020)</li> <li>• Approved by <b>Airbus</b> per A330 Maintenance Manual Item 11-002 Dry Cleaning Solvent (ref. MIL-PRF-680)</li> <li>• Approved by <b>Boeing</b> as PSD 6-88 for BAC 5750 Solvent Cleaning (as optional to P-D-680 specification)</li> <li>• Approved by <b>Honeywell Aerospace</b> per MIL-PRF-680B qualifications</li> <li>• Approved by <b>Lockheed Martin</b> STP57-201, Rev. H Cleaning of Carbon &amp; Low Alloy Steels (EPS G41.14) (<i>MIL-PRF-680B supersedes P-D-680</i>)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 9001-1, -2, -7, -10 Stoddard Solvent (MIL-PRF-680, Type I, II or III)</li> <li>• ASTM D1353, D1296, D130, F1110, F483, F945</li> <li>• NSN# 6850-01-474-2302, 6850-01-474-2309, 6850-01-474-2313, 6850-00-264-9039</li> </ul>
<p><b>AXAREL® 2000</b></p> <p><b>Type:</b> Solvent</p> <p><b>Application:</b> Manual Cleaning Immersion Airless Vacuum</p>	<ul style="list-style-type: none"> <li>• Approved under <b>MIL-PRF-680B</b> Degreasing Solvent Type II High Flash Point (Military Symbol SD-2) (DS-0018)</li> <li>• Approved by <b>Airbus</b> per A330 Maintenance Manual Item 11-002 Dry Cleaning Solvent (ref. MIL-PRF-680)</li> <li>• Approved by <b>Boeing</b> as PSD 6-88 for BAC 5750 Solvent Cleaning (as optional to P-D-680 specification)</li> <li>• Approved by <b>Honeywell Aerospace</b> per MIL-PRF-680B qualifications</li> <li>• Approved by <b>Lockheed Martin</b> STP57-201, Rev. H Cleaning of Carbon &amp; Low Alloy Steels (EPS G41.14) (<i>MIL-PRF-680B supersedes P-D-680</i>)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 9001-3, -4, -8 Stoddard Solvent (MIL-PRF-680, Type I, II or III)</li> <li>• ASTM D1353, D1296, D130, F1110, F483, F945</li> <li>• NSN# 6850-01-474-2319, 6850-01-474-2317, 6850-01-474-2316, 6850-00-637-6135</li> </ul>

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Products	Approvals/Test Method Conformance
<p><b>AXAREL® 3000</b></p> <p><b>Type:</b> Solvent</p> <p><b>Application:</b> Manual Cleaning Immersion Airless Vacuum</p>	<ul style="list-style-type: none"> <li>• Approved under <b>MIL-PRF-680B</b> Degreasing Solvent Type III Very High Flash Point (200°F) (Military Symbol SD-3) (DS-0017)</li> <li>• Approved by <b>Airbus</b> per A330 Maintenance Manual Item 11-002 Dry Cleaning Solvent (ref. MIL-PRF-680)</li> <li>• Approved by <b>Boeing</b> as PSD 6-88 for BAC 5750 Solvent Cleaning (as option to P-D-680 specification)</li> <li>• Approved by <b>Honeywell Aerospace</b> per MIL-PRF-680B qualifications</li> <li>• Approved by <b>Lockheed Martin</b> STP57-201, Rev. H Cleaning of Carbon &amp; Low Alloy Steels (EPS G41.14) (<i>MIL-PRF-680B supersedes P-D-680</i>)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 9001-5, -6, -9 Stoddard Solvent (MIL-PRF-680, Type I, II or III)</li> <li>• ASTM D1353, D1296, D130, F1110, F483, F945</li> <li>• NSN# 6850-01-474-2318, 6850-01-474-2320, 6850-01-474-2321</li> </ul>
<p><b>AXAREL® 4000</b></p> <p><b>Type:</b> Solvent</p> <p><b>Application:</b> Manual Cleaning Immersion Airless Vacuum</p>	<ul style="list-style-type: none"> <li>• Approved under <b>MIL-PRF-680B</b> Degreasing Solvent Type IV High Flash Point with Citrus Odor (Military Symbol SD-4) (DS-0023)</li> <li>• Approved by <b>Airbus</b> per A330 Maintenance Manual Item 11-002 Dry Cleaning Solvent (ref. MIL-PRF-680)</li> <li>• Approved by <b>Honeywell Aerospace</b> per MIL-PRF-680B qualifications</li> <li>• Approved by <b>Lockheed Martin</b> STP57-201, Rev. H Cleaning of Carbon &amp; Low Alloy Steels (EPS G41.14) (<i>MIL-PRF-680B supersedes P-D-680</i>)</li> <li>• ASTM D1353, D130, F1110, F483, F945</li> <li>• NSN# 6850-01-472-2722, 6850-01-472-2717, 6850-01-472-2719</li> </ul>
<p><b>AXAREL® 4100</b></p> <p><b>Type:</b> Solvent</p> <p><b>Application:</b> Manual Cleaning Immersion</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Goodrich Actuation Systems</b> 981-100-020 Issue 4 Solvent Degreasing</li> <li>• Approved by <b>Rolls-Royce</b> CSS No. 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)</li> <li>• Approved by <b>Rolls-Royce</b> OMat 1/257M Solvent Cleaner</li> <li>• SAE ARP 1755B, ASTM F945</li> <li>• NSN# 8010-01-535-0740</li> </ul>

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Products	Approvals/Test Method Conformance
<p><b>AXAREL® 6100</b></p> <p>Type: Solvent</p> <p>Application: Manual Cleaning Immersion</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Bell Helicopter</b>, Bulletin No 1915, Solvents, Blended Organic, Cold Degreasing</li> <li>• Approved by <b>Goodrich Actuation Systems</b> 981-100-020 Issue 4 Solvent Degreasing</li> <li>• Approved by <b>Rolls-Royce</b> CSS No 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)</li> <li>• Conforms to <b>Pratt &amp; Whitney</b> Hot Corrosion Testing of Standard Gas Turbine Engine Alloys (AMS 4037, 4375, 6359, 5508, 5536, 5544, 5608)</li> <li>• SAE ARP 1755B, ASTM F945 (20% &amp; 100%)</li> </ul>
<p><b>AXAREL® 9100</b></p> <p>Type: Solvent</p> <p>Application: Manual Cleaning Immersion</p>	<ul style="list-style-type: none"> <li>• Conforms to <b>Boeing</b> D6-17487 Rev M Exterior &amp; General Cleaners &amp; Liquid Waxes</li> <li>• Approved by <b>Bombardier</b> Service Bulletin S.B. 670BA-34-027 Cleaning Pitot and Static Lines and Fittings, Sec 3.B. (CRJ: CL-600-2C10,-2D24)</li> <li>• Conforms to <b>MIL-PRF-680B</b> Degreasing Solvent Type III Very High Flash Point (200°F) (Military Symbol SD-3)</li> <li>• Approved by <b>Rolls-Royce</b> CSS No. 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)</li> <li>• Approved by <b>Rolls-Royce</b> OMat 1/257M Solvent Cleaner</li> <li>• Conforms to <b>Royal Air Force Harrogate</b> Montreal Protocol Alternatives Programme Replacement for ODPs ('95)</li> <li>• ASTM D1353, D1296, D130, F1110, F483, F945, SAE ARP 1755A</li> </ul>
<p><b>BIOACT® 105</b></p> <p>Type: Solvent</p> <p>Application: Manual Cleaning Immersion</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Bell Helicopter</b> Bulletin No: 1915 Solvents, Blended Organic, Cold Degreasing (Liquid &amp; Pre-Saturated Wipes)</li> <li>• Conforms to <b>Boeing</b> D6-17487 Rev L Exterior &amp; General Cleaners &amp; Liquid Waxes (exceptions: ASTM F-484 Stress Cracking)</li> <li>• Pending Approval by <b>Bombardier</b> BAPS 180-009 Manual Solvent Cleaner (Ref. BAMS 570-001)</li> <li>• Approved by <b>CFM</b> CP# 2719 Rev 76</li> <li>• Conforms to <b>Douglas Aircraft Co</b> CSD #1 General Purpose Cleaner (exceptions: ASTM F-484 Stress Cracking)</li> <li>• Approved by <b>GE</b> for Cleaning Method No 23 Hand-Wipe Degreasing, SPM Task 70-21-23-110-053 (CO4-251)</li> <li>• Approved by <b>GE</b> for as alternate to SPM TASK 70-21-01-110-001 Cleaning Method No 1 Solvent Degreasing</li> <li>• Approved by <b>GE</b> for as alternate to SPM TASK 70-21-22-110-042 Cleaning Method No 22 Light Duty Aqueous Cleaning for Localized Hand-Wipe Cleaning</li> <li>• Approved by <b>GulfStream Aerospace</b> Standard GAS115H for Solvent Cleaner/Degreaser, Mixed Hydrocarbons, Part# GAS115H1</li> <li>• Approved by <b>Honeywell</b> C5049 Cleaning of Titanium &amp; Titanium Alloys</li> <li>• Approved by <b>International Aero Engines (IAE)</b> CoMat 01-506 (Liquid), CoMat 01-506A (Pre-saturated Wipes)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 8929 Hand Wiping Solvent for SPOP 208 Degreasing of Parts by Solvent Wiping (SPM Rev 120, Part# 585005)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 8929 Hand Wiping solvent for POP 1800-U Masking of Parts Prior to Selective Painting,</li> </ul>

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<b>BIOACT® 105 (continued)</b>	Chemical Processing, Painting or Stripping <ul style="list-style-type: none"> <li>• Conforms to <b>Pratt &amp; Whitney</b> PWA 36604 Rev D Hot Corrosion (AMS 4037)</li> <li>• Approved by <b>Rolls-Royce</b> CSS No 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)</li> <li>• Approved by <b>Rolls-Royce</b> OMat 1/257S Solvent Cleaner</li> <li>• Approved by <b>United Airlines</b> Engine Parts Cleaning, Part #: SOL3001-17 for BIOACT 105 Precision Cleaner, SOL3001-17TWL10X12 for Saturated Wipes</li> <li>• ASTM F945, F1110, F502, F519, F485, F483, F2111, D3941, D2879, D1901, D1613, B117, G46</li> </ul>
<b>BIOACT® 121</b>  <b>Type:</b> Solvent  <b>Application:</b> Manual Cleaning Immersion	<ul style="list-style-type: none"> <li>• Approved by <b>Airbus</b> per A330 Maintenance Manual Item 11-016 Cleaning Solvent (ref. BAC 5750)</li> <li>• Approved by <b>Boeing</b> per BAC 5750 Solvent Cleaning Sec. 5.11: d-Limonene, 95% minimum</li> <li>• Conforms to <b>Boeing</b> D6-17487 Rev N Solvent Cleaners, General Cleaning</li> <li>• Conforms to <b>Boeing</b> D6-17487 Rev L Exterior and General Cleaners and Liquid Waxes</li> <li>• Conforms to <b>Douglas Aircraft Company</b> CSD #1 Type 1 Materials &amp; Procedures for General Exterior Cleaning of Painted &amp; Unpainted Surfaces</li> <li>• ASTM F1110, F502, F519, F945, F485, F484, F483</li> </ul>
<b>BIOACT® 145</b>  <b>Type:</b> Solvent  <b>Application:</b> Manual Cleaning Immersion	<ul style="list-style-type: none"> <li>• Conforms to <b>Boeing</b> D6-17487 Rev. L Exterior &amp; General Cleaners &amp; Liquid Waxes</li> <li>• Conforms to <b>Douglas Aircraft Company</b> CSD #1 General Purpose Cleaner</li> <li>• Approved by <b>GulfStream Aerospace</b> Standard GAS115H for Solvent Cleaner/Degreaser, Mixed Hydrocarbons, Part# GAS115H1</li> <li>• ASTM F945, F1110, F502, F519, F485, F483</li> </ul>

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Products	Approvals/Test Method Conformance
<p><b>BIOACT® 280</b></p> <p><b>Type:</b> Semi-Aqueous</p> <p><b>Application:</b> Immersion</p>	<ul style="list-style-type: none"> <li>• Approved by <b>GE Aviation</b> as a general parts cleaner and as a plating wax remover on GEAE and CFMI engine hardware.</li> <li>• Conforms to <b>Honeywell</b> EMS 53170 Rev C 10-21-97 Type 1 Material Requirements for Aqueous Cleaning and Semi-Aqueous Degreasing, Tests A,B,C,F,G</li> <li>• Supported by <b>Hawker Pacific Aerospace, UK.</b> as a General Purpose High Temperature Degreasing Agent</li> <li>• Approved by <b>International Aero Engines (IAE)</b> CoMat 01-460</li> <li>• Approved by <b>Pratt &amp; Whitney</b> MCL E-205 Titanium Stress Corrosion Test</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 8913-1,-2 Wax Removal Solvent for SPOP 37 Method 2 Removal of Plating Wax (SPM Rev 120, Part #585005)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 8913-1,-2 Wax Removal Solvent for POP 1800-U Masking of Parts Prior to Selective Painting, Chemical Processing, Painting or Stripping</li> <li>• ASTM F1110, F2111, F945, F519</li> </ul>
<p><b>BIOACT® 280E</b></p> <p><b>Type:</b> Semi-Aqueous</p> <p><b>Application:</b> Immersion</p>	<ul style="list-style-type: none"> <li>• Conforms to <b>Boeing</b> D6-17487 Rev N Exterior and General Cleaners and Liquid Waxes, Polishes and Polishing Compounds (exceptions: ASTM F-484 Stress Cracking Tests on Acrylics, Type C</li> <li>• Approved by <b>CFM</b> CP# 2720 Rev 76</li> <li>• Approved by <b>GE Aviation</b> 70-80-04 Solvent, Wax Removal (C04-287)</li> <li>• Approved by <b>International Aero Engines (IAE)</b> CoMat 01-460</li> <li>• Conforms to <b>Pratt &amp; Whitney</b> PWA 36604 Rev B Hot Corrosion Testing of Standard Gas Turbine Engine Alloys</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 8913-11,-12 Wax Removal Solvent for SPOP 37 Method 2 Removal of Plating Wax (SPM Rev 120, Part #585005)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 8913-11,-12 Wax Removal Solvent for POP 1800-U Masking of Parts Prior to Selective Painting, Chemical Processing, Painting or Stripping</li> <li>• Approved by <b>Rolls-Royce</b> OMat 1/288D Wax Remover</li> <li>• Approved by <b>Rolls-Royce</b> CSS No 254 Class A Semi-Aqueous Cleaning Fluids Suitable for Use on Metallic Materials as CM000044 - Class A: BIOACT 280 (MLC104/1)</li> <li>• ASTM F945, F502, F519-93, F1110, F2111, SAE ARP 1755B</li> </ul>

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<p><b>CleanSafe™ 787C</b></p> <p><b>Type:</b> Aqueous</p> <p><b>Application:</b> Immersion Spray Ultrasonics</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Boeing</b> as PSD 6-57 for BAC 5763 Type II Grade A Emulsion Cleaning &amp; Aqueous Degreasing</li> <li>• Approved by <b>Boeing</b> as PSD 6-153 for BAC 5749 Alkaline Cleaning</li> <li>• Conforms to <b>GE Aviation</b> Appendix F Recommended Practice for Certifying Agent Approval of Cleaning Products Used on Metallic Jet Engine Hardware (Sec. 3.1.1, -.4, -5, -6, --9, -10, -12)</li> <li>• Approved by <b>GE Aviaiton</b> as C04-289 Cleaner, Mild Alkaline listed in 70-21-22 Light Duty Aqueous Cleaning in GE SPM (S1207 – Light Duty Alkaline Cleaner – C04-289)</li> <li>• Approved by <b>Honeywell</b> for C5012 Aqueous Cleaning in accordance to EMS 53170 Material Requirements for Aqueous and Semi-Aqueous Degreasing (Type I and Type II Cleaner)</li> <li>• Approved by <b>International Aero Engines (IAE)</b> CoMat 01-565</li> <li>• Approved by <b>Messier-Dowty</b> PCS-2621 for use on all materials and coatings on Messier-Dowty parts (Memo LMP 09/031)</li> <li>• Conforms to <b>MIL-PRF-87937D</b> Cleaning Compound, Aerospace Equipment Type IV – Heavy Duty, Water-Dilutable Cleaning Compound</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as SPMC 190 referenced by SPS 190 Immersion Cleaning for SPOP 209 Degreasing of Parts by Aqueous Cleaning</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 1465 referenced by PS 437 Alkali Cleaner (Immersion) for POP 1800-U Masking of Parts Prior to Selective Painting, Chemical Processing, Painting or Stripping</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 1465 referenced by PS 437 Alkali Cleaner (Immersion) for POP 573-AD Alkali Cleaning (Immersion)</li> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 1465 referenced by PS 436 Alkali Cleaner (Spray Wash) for POP 581-R Alkali Cleaning in Cabinet-Type Automatic Spray Wash Equipment</li> <li>• Conforms to <b>Pratt &amp; Whitney</b> PWA 36604 Revision D</li> <li>• Approved by <b>Rolls-Royce</b> CSS204 Aqueous Cleaners (MLC104 ISSUE 18 - APRIL 2009)</li> <li>• Approved by <b>Rolls-Royce</b> OMat 1/24AL Aqueous Cleaner</li> <li>• Approved by the <b>SCAQMD</b> as a Clean Air Solvent</li> <li>• Approved by <b>Spirit AeroSystems</b> as SPS 107630 Emulsion Cleaning &amp; Aqueous Degreasing</li> <li>• ASTM F519, F483, D816, F945, F1111, F1110, F502, E1447, Wet Adhesion Tape Test, MIL-DTL-83488d, SAE ARP 1755B, (Chem. Analysis, Cleaning Ability, Etch Rate, Cleaning Prior to FPI – per EMS53170)</li> </ul>

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<p><b>LENIUM® ES</b></p> <p>Type: nPB-based</p> <p>Application: Vapor Degreasing</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Goodrich Landing</b> LGPS 1400 Solvent Cleaning/Degreasing</li> <li>• Approved by <b>Lockheed Martin</b> EMAP G41.149</li> </ul>
<p><b>LENIUM® GS</b></p> <p>Type: nPB-based</p> <p>Application: Vapor Degreasing</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Praxair</b> ID# GDE 10055434</li> <li>• Approved by <b>Scott Aviation</b> SMP No.: 7700009 Rev AP, Cleaning of Components &amp; Assemblies For Use in Breathing Equipment</li> <li>• ASTM F519, F1110, F945</li> </ul>
<p><b>LENIUM® XS</b></p> <p>Type: nPB-based</p> <p>Application: Vapor Degreasing</p>	<ul style="list-style-type: none"> <li>• Conforms to <b>Boeing</b> D6-17487 Rev P Solvent Cleaners/General Cleaning</li> <li>• Conforms to <b>Douglas</b> CSD #1 Type 1 General Purpose Cleaner (exceptions: Stress Crazing Test on Acrylics)</li> <li>• Approved by <b>Lockheed Martin</b> EMAP G41.149</li> <li>• ASTM F519, F1110, F502, F945, F485, F483, SAE ARP 1755B</li> </ul>
<p><b>LENIUM® FHD</b></p> <p>Type: HFC-based</p> <p>Application: Vapor Degreasing</p>	<ul style="list-style-type: none"> <li>• Conforms to <b>Boeing</b> D6-17487 Rev P Solvent Cleaners/General Cleaning</li> <li>• Conforms to <b>Douglas</b> CSD #1 Type 1 General Purpose Cleaner (exceptions: Stress Crazing Test on Acrylics)</li> <li>• Approved by <b>Rolls-Royce</b> OMat 1/21E Vapor Degreasing</li> <li>• ASTM F519, F1110, F502, F945, F485, F483, SAE ARP 1755B</li> </ul>
<p><b>AEROWAX™ MT</b></p> <p>Type: Microcrystalline Masking Wax</p> <p>Application: Immersion</p>	<ul style="list-style-type: none"> <li>• Approved by <b>Pratt &amp; Whitney</b> as PMC 9551 Masking Wax Compound</li> <li>• ASTM F945, Hot Corrosion (per PWA 36604 Rev D)</li> </ul>

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