



International Products CORPORATION

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Metal Compatibility of Aqueous Cleaning Solutions, Undiluted

% Change in Mass of Selected Metals After Immersion in Undiluted Cleaning Solutions

| Metal | Immersion Time | MICRO-90® | | LF2100® | | MICRO® A07 | | SURFACE-CLEANSE/930® | | ZYMIT® Low-foam | | ZYMIT® Pro | | Water (Control) | |
|-----------------------|----------------|-----------|--------|---------|-------|------------|--------|----------------------|-------|-----------------|-------|------------|-------|-----------------|-------|
| | | 25° C | 40° C | 25° C | 40° C | 25° C | 40° C | 25° C | 40° C | 25° C | 40° C | 25° C | 40° C | 25° C | 40° C |
| Aluminum | 24 Hours | -4.0% | -20.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | -17.7% | -21.4% | 0.0% | 0.0% | -0.1% | -0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Brass Alloy | 24 Hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | -0.1% | -0.2% | -0.1% | -0.1% | -0.2% | -0.4% | 0.0% | -0.1% | -0.1% | -0.5% | -0.1% | -0.2% | 0.0% | 0.0% |
| Bronze Alloy 220 | 24 Hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | -0.1% | -0.1% | -0.1% | -0.1% | -0.2% | -0.3% | 0.0% | -0.1% | -1.0% | -0.2% | -0.1% | -0.2% | 0.0% | 0.0% |
| Cold Rolled Steel | 24 Hours | 0.0% | 0.0% | 0.0% | 0.0% | -0.4% | -0.8% | -0.1% | -0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | 0.0% | -0.6% | 0.0% | 0.0% | -6.4% | -15.0% | -0.8% | -1.0% | -1.0% | -0.2% | -0.3% | -0.6% | -0.2% | -0.2% |
| Copper Alloy CA 110 | 24 Hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | -0.1% | -0.1% | -0.2% | 0.0% | -0.2% | -0.3% | 0.0% | -0.1% | -1.0% | -0.3% | 0.1% | -0.3% | 0.0% | 0.0% |
| Monel 400 | 24 Hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | -0.1% | -0.1% | 0.0% | 0.0% | -0.2% | -0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | -0.1% | 0.0% | 0.0% |
| Stainless Steel | 24 Hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Titanium Alloy, 8% Mn | 24 Hours | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 288 Hours | 0.0% | 0.0% | 0.0% | +0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | -0.1% | 0.0% | -0.1% | 0.0% | 0.0% |

Test Method: ASTM D543-95

The recommended concentration use for the above cleaners is 1.0% to 2.0%. Test data is provided for comparison purposes only. Individuals should conduct their own tests for compatibility verification. Please contact International Products Corporation for compatibility information on any metal not shown.

For Sales and Service in Europe:

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