METEX M-629
Acid Salt
Product Code: 113001

DESCRIPTION

Metex M-629 is a carefully balanced mixture of acid salts, activators, and surface active agents. It is supplied as a dry acid powder, and can be used to replace most of the commonly used plating room acids.

Metex M-629 can be used with current to activate Nickel, Kovar, Invar, Alloy 42, and other nickel alloys.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

OPERATING PARAMETERS

Operating Conditions:

<table>
<thead>
<tr>
<th></th>
<th>Acid Dip</th>
<th>Nickel Activation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration</td>
<td>8 – 16 oz/gal</td>
<td>1 lb/gal</td>
</tr>
<tr>
<td></td>
<td>(60 – 120 g/L)</td>
<td>(120 g/L)</td>
</tr>
<tr>
<td>Temperature</td>
<td>Room Temp</td>
<td>120 – 130°F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(49 – 54°C)</td>
</tr>
</tbody>
</table>

MAKE UP PROCEDURE

Add the full amount of Metex M-629 to the tank half full of warm 44°C (110°F) water. Agitate the solution until the powder is dissolved and add remainder of the water to bring solution to final working volume, then heat or cool as required.
EQUIPMENT

Tanks:
Polypropylene, Polyethylene, or PVDC

Heaters:
Karbate, graphite, or PTFE

Ventilation:
Recommended for heated solutions

ANALYTICAL PROCEDURES

Titration
a. Pipette a 10 mL sample into a 250 mL Erlenmeyer flask and dilute with 50 mL of water.
b. Add 5-10 drops of bromcresol green indicator.
c. Titrate with 0.5N sodium hydroxide.
d. Calculation:

\[
\text{mL } 0.5\text{N NaOH} \times 7.52 = \text{g/L Metex M-629} \\
\left(\text{mL } 0.5\text{N NaOH} \times 1.0 = \text{oz/gal Metex M-629}\right)
\]
SAFETY & WARNING

MacDermid Enthone recommends that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. Safety Data Sheets are available from MacDermid Enthone.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Enthone for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

ORDER INFORMATION

<table>
<thead>
<tr>
<th>Product</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metex M-629</td>
<td>113001</td>
</tr>
</tbody>
</table>

CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Enthone
macdermidenthone.com/industrial

North America
245 Freight Street
Waterbury, CT 06702, USA
203.575.5700
americas@macdermidenthone.com

Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory: Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any noncompliant product at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct, indirect, incidental or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect, incidental and consequential damages that may result from use of the products under such conditions, and agrees to exonerate, indemnify, defend and hold harmless MacDermid, Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in a manner that infringes any patent or other intellectual property rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

© 2019 MacDermid, Inc. and its group of companies. All rights reserved. “®” and “TM” are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.