

# Capture today's opportunities while preparing for upcoming challenges

**AX for Chemical helps streamline operations for a new supply chain to face skyrocketing prices, new regulations, and security for hazardous materials.**

## Solution Benefits

### Meet business and industry needs with a single integrated solution

AX for Chemical combines Microsoft Dynamics AX, a Gartner ERP leader, with industry-specific capabilities such as Manufacturing Execution System, Advanced Quality Management, and Enterprise Asset Management modules. Best practices and proven methodology fuel successful system implementations.

### Comply with US and EMEA guidelines and regulation

Achieve full compliance with changing international guidelines and regulations. Drive consistent compliance by tracking regulated products and registered chemical substances.

### Integrate Advanced Quality Management as part of your complete solution

Integrated quality management includes non-conformance management, quarantine, quality orders, sampling plans, reduced/skip testing, acceptance criteria, certificates of analysis and/or certificates of conformance. Activity-Based Product Costing enables careful monitoring for both direct and indirect costs, as well as track and analyze all costs related to performing quality processes.

### Promote best practices across your value chain

Regulatory compliant development, manufacturing, inventory, and supply chain management support rework activities, co/by- products, in process quality control, sub-batch management, skill management for manufacturing, quality and project management, potency and density management, sample in and out processes.

Chemical manufacturers work in a volatile, competitive marketplace that demands stringent compliance with global and regional regulations — environmental, health, safety, and more. Quality must never be compromised. At the same time, they face ongoing needs to streamline operations, improve profit margins, and ensure that R&D keep them ahead of the competition. Business and IT leadership struggle to find cost-effective, flexible systems that can help them meet these challenges and facilitate growth.

AX for Chemical can support changing needs and align business, industry, and regulatory challenges from the start. Comprehensive functionality seamlessly integrates industry requirements with the ERP solution, so that critical processes can run smoothly and comply with regulations. Flexible technology minimizes customizations and implementation challenges, yet lets you scale and extend capabilities. Expert consulting ensures that you make cost-effective choices for a full solution that includes:

- AX for Chemical, built on Microsoft Dynamics AX 2012, Microsoft's most advanced and feature-rich ERP system.
- Industry-specific expertise and best practices for delivering the ERP implementation that fits your business and helps your company achieve regulatory compliance.



## Key Features

<b>Inventory and Warehouse Management</b>	<ul style="list-style-type: none"> <li>• A configurable approval workflow applies to the item creation process and prevents the usage of unapproved items.</li> <li>• Sub-batch management offers full batch traceability, including batch lifecycle and status change — all secured by electronic signature.</li> <li>• Standard vs. actual values of potency and density are managed by the system: standard values are defined at the product level, the actual potency and density of a batch can be used to calculate the batch volume, weight and quantity.</li> <li>• Regulated and restricted products can be tracked within the system; reporting details on regulated/restricted products are visible real time. Imported/exported quantities by chemical substance and country are fully controlled.</li> <li>• Only licensed external warehouses are allowed to store selected goods: this reduces the risks due to uncontrolled environments.</li> </ul>
<b>Sales and Distribution</b>	<ul style="list-style-type: none"> <li>• Manage the Approved Customer List by item, batch, and country.</li> <li>• Reserve for shipment only batches that align precisely with batch attributes and batch specifications defined by item and customer.</li> <li>• Shipment approval ensures that only material that is approved for the combination of product/customer/country and with complete documentation and certificates is shipped.</li> </ul>
<b>Purchasing</b>	<ul style="list-style-type: none"> <li>• Generate the Approved Vendor and Manufacturer lists, fully integrated with quality control on incoming goods. Quality inspection can take the vendor/manufacturer's qualification status into account.</li> </ul>
<b>Advanced Quality Management</b>	<ul style="list-style-type: none"> <li>• Quality order approval workflow equips users with a graphical interface, multiple levels of review, approval and escalation secured by electronic signature, and a conditional release process.</li> <li>• Streamline sample management, reduce tests, and produce accurate sampling plans based on a statistical approach.</li> <li>• Generate Certificates of Analysis /Conformance by item and/or customer.</li> <li>• Test criteria based on mathematical calculations with multiple steps complies with regulatory requirements.</li> </ul>
<b>Manufacturing Execution System</b>	<ul style="list-style-type: none"> <li>• Embedded filling component integrates with production orders.</li> <li>• Potency and density management includes theoretical and actual batch potency, along with automatic recalculation of quantities.</li> <li>• Ensure continuous precision with scale management, calibration, and maintenance.</li> </ul>
<b>Production Control</b>	<ul style="list-style-type: none"> <li>• Manage reworking and reprocessing activities, ensuring that only selected operations/ingredients can be applied to the process.</li> <li>• Save time and reduce paper-based activities by managing master batch records within the system, automatically linked to the formula version.</li> </ul>
<b>Enterprise Asset Management</b>	<ul style="list-style-type: none"> <li>• Manage complex equipment maintenance with multi-level object control.</li> <li>• Preventive and ad-hoc work orders integrate with Materials Resource Planning.</li> <li>• Monitor and optimize costs, consumption, and availability with spare parts management and documentation.</li> <li>• Full traceability of maintenance activities includes workflows and electronic signatures.</li> </ul>
<b>Activity-Based Product Costing</b>	<ul style="list-style-type: none"> <li>• Calculate full costs for items, including direct and indirect costs.</li> <li>• Accelerate and simplify item cost calculation by using S&amp;OP, forecasts and budgets to generate standard costs for products, including costs like purchasing, quality and indirect manufacturing costs.</li> <li>• Include all costs related to performing quality processes.</li> </ul>
<b>Electronic records/Electronic signatures</b>	<ul style="list-style-type: none"> <li>• Electronic signature certificate includes limited validity period and user lock-out if a certificate is repeatedly violated</li> <li>• Use extensible, dynamic record-level security to define access rights and functions by role</li> </ul>



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