O2 Process Manufacturing for MAS 500

escape Velocity systems

Food Processing • Chemical • Health Products • Cosmetics • Mixed - Mode • Pharmaceutical

Formula-based manufacturers are requiring more out of their production software than ever before. No longer are they simple looking for formula management, production and accounting. In the highly competitive and highly regulated industry of today's process manufacturers, companies are relying on technology to do more with less, while maintaining strict security over their information. Regulations such as the Bioterrorism Act, 21 CFR 11 are just a few of the regulations that O2 can help an organization manage with ease.

Are formulas only a portion of your business operations? O2 is the first true mixed-mode manufacturing on the market today. With capabilities such as bill of materials and routings, O2 is a complete solution for your mixed mode needs.

O2 and MAS 500

MAS 500 has long been an industry leader in distribution and accounting solutions. This robust product provides features such as:

- **MS-SQL performance and scalability** which manages high transaction volumes and rapid growth
- Advanced capabilities; Automated complex processes and the tools to manage **multiple locations / facilities** and **international sourcing and sales**
- **Customizer module** for complete customizability of your MAS 500 screens to allow adaptation of changing requirements

O2 for MAS 500 leverages the strength of the accounting, distribution and discrete manufacturing modules of MAS 500 and adds an equally full-featured Process and Mixed-Mode Manufacturing system. By leveraging the advantage of the powerful MAS 500 toolset, Customizer Module and MRP with the feature set of O2, process manufacturing and mixed mode companies can take advantage of leading software made specifically for their industry.

Health Products & Pharmaceuticals

Food Processing

Formula Management

Formulas are the life-blood of a process manufacturer. Managing a high number of formulas and versions can be a tedious and time consuming task. Have O2 help you get control of your formulas with:

- **Formula security by formula group** provides formula security by location, department or user privilege
- **Formula life cycle** tracking
- **Formulate in gross or net**, by **weight / volume** or **percentage**
- **R&D** record tracking
- QC tests, batteries and **physical property specifications**
- **Intermediate explosion**
- Powerful search capabilities; **query your formulas by physical properties**, descriptive properties, or any user defined properties of the formula.
- Revision history tracking / **21CFR 11b Auditing and Security**
- Gross to net calculations at the line item level **Dosage and serving size**

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Physical Properties

Manage the intricacies of your organization with the physical properties of O2. A physical property is a user-defined specification that can be attached to inventory items, formulas, customer/item keys and QC tests and batteries. You may want to perform a search of all formulas that are alcohol based, are red, and that have a pH level of 3-4. Or perhaps your company manufactures food, your specification for a certain product is 8-10 grams of fat, yet you have a customer who requires no more than 8.5 grams of fat for that product. With O2 physical properties, both of these scenarios, plus many, many more are easily managed.

Use O2 physical properties to print and **manage your Certificates of Analysis, item and customer specification** reports and a variety of **compliance reports** required by your industry.

- Physical property specifications and results can be defined as <, <=,=,>,>=. So if your test is that E. Coli is tested as <2 ppm, O2 will understand that this is not the same as E. Coli = 2 ppm
- **Customer Item Specifications**
- Physical properties can be descriptive or calculated
- Define **physical property groups** and sub groups
- Generate **customer specific Certificate of Analysis** reports
- **Search your inventory items and formulas** by physical property

Paints & Chemicals

Compliance Reporting

MSDS, SARH, HAPS, HACCPs and the Bioterrorism Act are just a few of the reporting requirements of process manufacturers. Become compliant with your regulatory and Best Practices requirements with O2 Compliance Reporting Module.

Cosmetics

Quality Control

If quality control is critical to your organization, look no further than O2. With O2 you can define your quality control tests for an item or formula and define your battery of QC tests for each product.

As products are received or produced, your QC staff can have work assigned to their queue. If you require multiple readings of your QC tests, O2 can help you manage your readings. With integration to the physical properties module, the final QC reading can update the lot's physical properties. Analyze your QC data in our Business Insights Analysis Tool; with sophisticated **query tools, pivot tables and graphical display generators**, your QC data can now be easily accessible, powerfully searchable and dramatically presentable.

If a lot fails QC, is expired or needs to be on hold for any reason, O2 will not allow the lot to be used in production or shipped to customers.

Other features include:

- **Destructive or non-destructive tests**
- **Multiple readings per test**
- **Attachments to test reading results**
- QC tests can automatically **put a lot on hold**

Production / Production Engineering

O2 Production was designed for both batch processing and continuous flow manufacturing. Manage your production like never before with:

- **"What-if" scenarios** of assigning lots to a batch. How do they affect the physical properties of the batch?
- **Instructions can change based on warehouse and size of batch**
- Track and report on **QC adds** to a batch
- Critical Materials Inquiry **integrates with MRP**
- Unlimited cost codes for **labor and overhead allocations**

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