



dab Data Products

dab Data Products – Material Master

Customer Brochure



dab Data Material Master

helps organizations optimize inventory investments and strengthen cost control by **transforming SAP material master data into strategic intelligence**. Our solution consolidates material attributes, plant-specific configurations, and valuation data into a structured, analytics-ready format—empowering supply chain, finance, and procurement teams to make informed decisions without SAP expertise.

Poor data quality costs organizations an average of \$12.9 million annually, according to Gartner research.¹ Despite this, industry studies show that **average inventory accuracy rates range from just 65% to 75%², with many organizations struggling to reach the benchmark of 90% accuracy** that supply chain professionals recommend. World-class organizations achieve 95% or higher inventory accuracy and experience substantially less waste and higher profitability.³ Without visibility into material data, organizations struggle to answer critical questions: Which materials tie up the most working capital? Where are planning parameters inconsistent? Which materials should be consolidated or retired?

Our solution addresses these challenges by translating technical SAP codes into business-friendly terms, enabling you to identify slow-moving materials, detect incomplete planning parameters, spot consolidation opportunities, and compare cost structures across your material portfolio—without requiring SAP expertise.

Designed for CFOs, supply chain managers, procurement directors, plant managers, and business analysts, dab Data Product Material Master supports measurable outcomes: freed working capital, improved data quality, procurement savings, and enhanced operational efficiency.



\$12.9 million

is the average amount an organization loses every year due to poor data quality.

Getting started is straightforward: we assess your SAP environment, demonstrate the solution with your data, and implement a tailored plan that fits your organization's needs.

¹ <https://www.gartner.com/en/data-analytics/topics/data-quality>

² <https://optimoroute.com/inventory-accuracy/>

³ <https://www.netsuite.com/portal/resource/articles/inventory-management/inventory-accuracy.shtml>

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Overview dab Data Product Material Master

This Data Product unifies your material landscape across company codes, plants, and valuation areas. It removes data silos by standardizing your SAP material structures into a consistent, analytics-ready model that business users can easily understand.

It provides a view of material attributes, plant-specific configurations, current valuations, and planning parameters, with relevant information accessible in one place. The solution harmonizes definitions for material types, valuation classes, planning parameters, and organizational structures, creating a common language for material management across the organization. It also offers consistent, plant-aware reporting that supports inventory optimization, accelerates decision-making, and supports working-capital management.

The solution is structured around the following core components, which together give a material perspective:

- **General Material Data (MARA)** captures the fundamental attributes that define each material across your organization.
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- **Plant Data for Material (MARC)** provides location-specific configuration including lot sizes, safety stock, and procurement settings as they exist at extraction time.
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- **Material Valuation (MBEW)** contains essential financial information including current prices, stock values, and valuation methods for accurate cost analysis.
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- **Customization (T-Tables)** provides the business meanings behind material types, valuation classes, material groups, organizational structures, and other critical settings.

By linking these components into a unified model, the Data Product helps maintain consistency across related processes. Rather than simply storing master records, it transforms current material data into decision-ready information that supports inventory optimization, cost management, and strategic planning based on your organization's actual material state.

General Material Data (MARA)

Keep your material master clean and organized by identifying duplicate materials, verifying consistent naming practices, and tracking who creates materials and when. **MARA captures material numbers, descriptions, material types, material groups, and base units of measure – enabling you to spot consolidation opportunities, enforce classification standards, and reduce unnecessary material proliferation.** Organizations use this data to streamline their material catalog, standardize categorization across plants, and support better procurement decisions with clear, consistent material definitions.

Plant Data for Material (MARC)

Compare how the same material is configured across different locations to find standardization opportunities and reduce inconsistencies. **MARC shows lot sizing procedures, safety stock levels, reorder points, and procurement types as they exist at extraction time.** You can identify incomplete or missing configurations, detect settings that lead to excess inventory or stockouts, and standardize planning approaches based on actual plant requirements.

Material Valuation (MBEW)

Understand where your cash is tied up in inventory and identify materials with cost variances that need attention. **MBEW captures current standard prices, moving average prices, price control indicators, and total inventory values as of the extraction date.** You can spot slow-moving materials that consume cash, see cost exposure by material group, compare standard prices with moving average prices to detect variances, and make informed procurement decisions based on current prices.

Customization (T-Tables)

Make material data accessible to users across your organization by translating technical SAP codes into plain business language. **T-Tables provide material type descriptions, material group definitions, valuation class meanings, and plant details – enabling procurement managers, plant supervisors, and finance teams can analyze material data without SAP expertise.** Reports become immediately understandable, terminology stays consistent across locations, and users can perform their own material analysis independently.

Analytical Capabilities (dab AnalyticSuite)

The dab Data Product Material Master seamlessly integrates with our comprehensive [dab AnalyticSuite](#), turning your material master data into strategic intelligence that supports inventory optimization, cost control, and planning accuracy. Pre-built dashboards accelerate time to value, while flexible customization adapts to your organization's unique material management requirements.

Five Key Analytical Areas:

1 Inventory Value Management: Pinpoint slow-moving materials consuming working capital, understand inventory concentration by material type and plant, and identify liquidation candidates. Track where cash is tied up and take action to free it.

2 Material Data Quality: Catch missing descriptions and incomplete planning parameters before they cause problems. Spot patterns in data quality issues by user or department, establish governance standards, and prevent planning disruptions.

3 Material Portfolio Analysis: Understand your material landscape by type, group, and industry sector. Identify consolidation opportunities and duplicate materials to maintain a lean material master.

4 Current Price & Variance Analysis: Spot materials where actual costs differ from planned costs, identify procurement opportunities, and improve forecast accuracy. Compare standard prices with moving average prices to catch variances early.

5 Planning Parameter Insights: Compare safety stock levels and lot sizes across plants for the same material. Find missing or inconsistent configurations, standardize planning approaches, and eliminate excess inventory caused by parameter mismatches.

Customization & Integration Capabilities: Our AnalyticSuite adapts to your specific business requirements, integrating seamlessly with ERP systems, planning platforms, and reporting tools such as Power BI and Excel. The solution

can be extended with custom analyses, additional data sources, and organization-specific KPIs to meet your unique needs.

The combination of standardized material master data with advanced analytics capabilities enables you to transform material management from a tactical function into a strategic value driver based on current, accurate information.

Use Cases



Working Capital Optimization

Challenge: Excess inventory and slow-moving stock tie up cash that could be invested in growth initiatives.

Questions answered:

- Which materials represent the largest inventory values with minimal movement?
- What is our total current inventory value by material type?
- Which obsolete or slow-moving materials should we liquidate?

Use Case #1

A manufacturing company identified \$3.8M in slow-moving inventory across eight plants, freed up \$2.9M through targeted liquidation within six months, and reduced carrying costs by 18%.



Master Data Quality & Completeness

Challenge: Incomplete material master data causes planning errors, manual corrections, and unreliable reporting.

Questions answered:

- Which materials lack essential planning parameters or descriptions?
- How consistently are materials categorized across organizational units?
- Which users or departments create materials with data quality issues?

Use Case #2

An industrial equipment manufacturer discovered 28% of materials had incomplete planning parameters causing 3-4 hours of daily manual corrections. Data quality standards improved completeness to 96% within nine months, eliminating manual interventions and boosting planning accuracy by 23%.



Current Price Analysis & Procurement

Challenge: Without visibility into price variances, procurement teams miss savings opportunities and struggle with accurate cost forecasting.

Questions answered:

- Which materials show significant variances between standard and moving average prices?
- What is our current cost exposure by material group?
- Where can we consolidate similar materials for better pricing?

Use Case #3

A chemical processing company identified 650 materials where moving average prices exceeded standard prices by 15%+, updated costs and renegotiated contracts, resulting in \$1.2M annual savings and 18% better cost forecast accuracy.



Planning Parameter Consistency

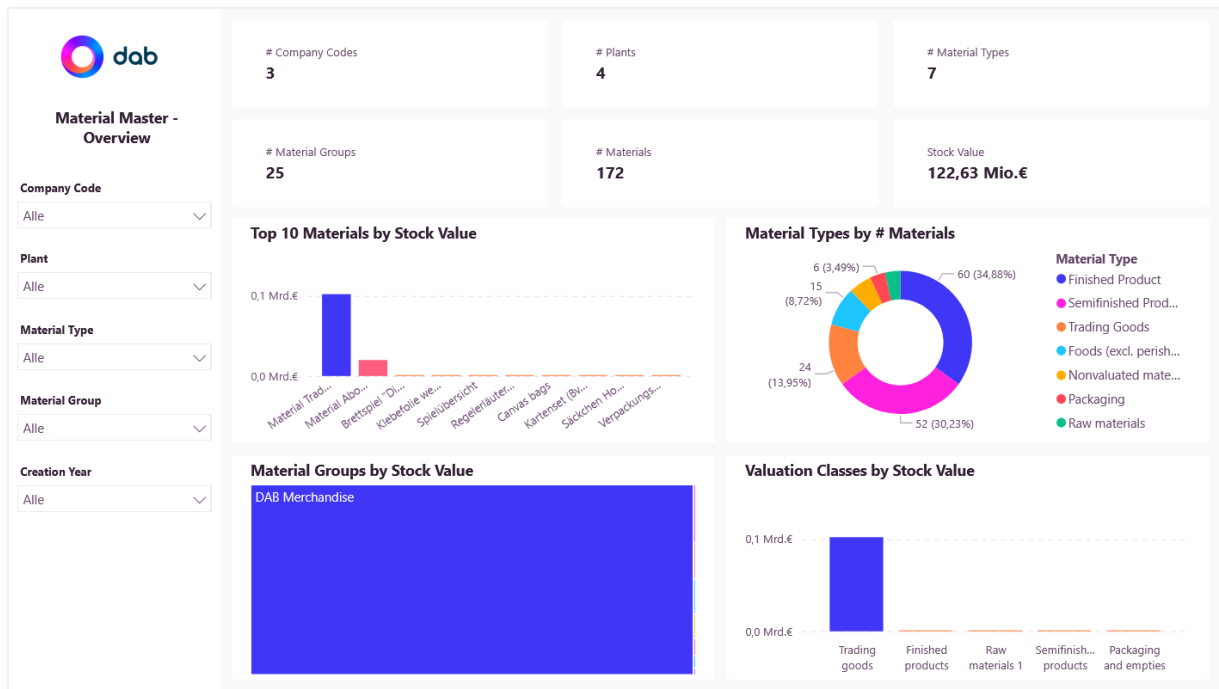
Challenge: Inconsistent planning parameters across plants lead to either excess inventory or stockouts.

Questions answered:

- Which materials have inconsistent safety stock settings across plants?
- How many materials lack proper planning parameters?
- Which plants manage the same materials differently?

Use Case #4

An automotive supplier found one plant carrying 40% excess inventory due to inconsistent safety stock calculations. Standardizing planning approaches reduced excess stock by €800K, improved on-time delivery from 94% to 98%, and freed up 15% warehouse capacity.



Power BI Report "Data Product Material Master" Page "Overview" displaying key metrics along with visual breakdowns of relevant information.

Summary and next Steps

This Data Product transforms your material master data into actionable business intelligence. It connects material attributes, plant configurations, valuation data, and organizational structures into a unified view that reveals opportunities hidden in your SAP system.

It helps you free up working capital trapped in slow-moving inventory, improve planning reliability through better data quality, capture procurement savings from price variance analysis, and enhance operational efficiency through standardized planning parameters—while presenting information in business-friendly language accessible without SAP expertise.



Key Benefits include:

- Working capital freed through identification of slow-moving and obsolete materials
- Planning reliability improved through better data quality and governance
- Procurement savings captured from price variance analysis and material consolidation
- Operational efficiency enhanced through standardized planning parameters
- Decisions improved with accurate, current material data

Ready to unlock the value in your material master data? Our implementation approach makes it easy:

1 Assessment: We evaluate your SAP environment and material management requirements

2 Demonstration: See the solution in action with your actual data

3 Implementation: We configure a tailored solution in your environment

4 Activation: Gain immediate access to 20+ predefined Material Master analyses and an interactive Power BI report

Contact us today to discover how **dab Data Product Material Master** can support improved inventory visibility, working capital optimization, and cost control across your organization.

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