

CoChecker

Crawler for high-quality compliance data



CoChecker: Data substitution through artificial intelligence

The multitude of requirements for the development, manufacture, and distribution of products requires constantly updated data to confirm compliance. This is often difficult to achieve, especially with complex supplier structures or dynamic requirements. DataCross from tec4USolutions offers a communication platform that simplifies supplier communication and provides the best possible support. For cases in which suppliers cannot or do not want to provide certain data, the CoChecker extension application offers appropriate assistance.

The particular focus is to obtain information **on material data, statements of conformity with regulations, and CO2 information.**

Additional customer-specific data can also be integrated without major system adjustments. CoChecker also offers functions such as reading documents, standardizing material designations, and researching market prices for standard parts.



How it works

If product information is missing or incomplete, DataCross forwards the request to CoChecker. The AI-supported system solution uses various process steps to determine a probability value that reflects the requested information. For this, it is necessary that the item in question is described by as many product attributes as possible. The AI performs the following steps:

- 1. Internal search** – Comparison with its own database to find identical products with complete information.
- 2. Similarity search** – If there are no exact matches, the AI determines products with a high degree of attribute overlap and calculates probability values for the information sought.
- 3. Additional query** – If CoChecker only finds comparable items that have even more extensive item attributes and the search result is below a specified probability, CoChecker specifically requests additional product attributes from the user.
- 4. External research** – If no solution can be found internally, the AI searches the internet for comparable items and applies the same analysis process.

The results are transferred back directly to DataCross, where they can be used for compliance verification or further evaluation.

Fields of application

1. Database manager and data crawler

In CoChecker, product queries are defined by technical specifications, parts number, and parts name. CoChecker first searches the DataCross database with extensive product catalogs. If no exact match is found, similar products are identified. If the database is insufficient, the search is extended to the World Wide Web. CoChecker analyzes the results using AI-supported logic and displays them in a probability matrix.

2. Generation of standardized material parts lists

The data crawler has an integrated function for recording and interpreting materials described in different ways in accordance with standards. It also reliably recognizes and classifies materials in non-standardized parts lists.

3. Data export from drawings

In many cases, materials are specified directly on component drawings instead of in parts lists. CoChecker reads these automatically, records the materials, and converts them into standardized designations using standardization logic. This ensures that even inconsistently documented materials

4. Price research

Buyers can use CoChecker to identify specific substitute products, thereby obtaining valuable reference values for price negotiations with existing suppliers. In addition, alternative parts and suppliers are identified that can serve as substitutes if necessary for greater flexibility and negotiating leverage.

Areas of application

- ✓ Electrical/electronics industry
- ✓ Machinery and plant engineering
- ✓ Companies with distributors or Asian connections
- ✓ Design in a wide range of industries

CoChecker provides fast, reliable analyses and ensures greater efficiency and security in development, production, and procurement processes.

Your benefits

Manufacturing companies are under pressure to comply with legal and regulatory requirements and to provide complete, accurate, and up-to-date product information at all times. CoChecker can help minimize liability risks and generate increasingly better compliance data.

Any questions?

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