



### Input prompt (0 tokens, 0 CU)

find alternative components for production order 1023942 for component MATS-BATTERY

### Tool result (7367 tokens, 0.02702 CU)

OpenAI Gpt4o (input)  
7292

OpenAI Gpt4o (output)  
75

### Plan:

1. Use the `get_po_components` tool to retrieve the complete list of components for the target production order 1023942.
2. Verify if the component MATS-BATTERY is missing from the production order 1023942.
3. Use the `get_ref_orders` tool to get a list of reference production orders that match the criteria such as planning starting date, status, and material name.
4. For each reference order ID obtained in step 3, retrieve its list of components and compare it with the target order's component list to identify potential alternative components for MATS-BATTERY.
5. Compile a final list of all suitable alternative components found, limiting to the top 5 per missing component.
6. Use the Final Answer tool to provide the response to the user with the list of alternative components for MATS-BATTERY or indicate if no alternatives were identified.

### Input value (5123 tokens, 0.01925 CU)

OpenAI Gpt4o (input)  
5025

OpenAI Gpt4o (output)  
98

```

{
  "data": {
    "po_components": [
      {
        "MaterialComponentIsPhantomItem": false,
        "BillOfMaterialItemNumber": "0040",
        "ManufacturingOrderCategory": "10",
        "EntryUnitSAPCode": "EA",
        "MatlCompIsMarkedForBackflush": false,
        "Reservation": "453277",
        "MaterialCompOriginalQuantity": "1",
        "Currency": "EUR",
        "UsageProbabilityPercent": "100",
        "GoodsRecipientName": "",
        "SalesOrder": "",
        "OperationScrapInPercent": "0.00",
      }
    ]
  }
}

```

### 1) Entry & slot binding

The scenario is invoked with slots (production\_order\_id, missing\_component\_item\_Number\_id, component\_material\_name) and Joule binds these into request\_body variables.

### 2) Build request and call the agent

Joule composes request\_body and POSTS to the agent runtime (API\_AGENT\_CALLBACK) and passes plan based on the pre-defined instruction

### 3) Agent fetches target information

Agent retrieves component information of the target production order leveraging added joule function