

VOITLÄNDER-INTERNATIONAL

WEBSITE

[www.voitlaender-international.com](http://www.voitlaender-international.com)  
[/qr/metalworking/website/](http://www.voitlaender-international.com/qr/metalworking/website/)



# VOITLÄNDER

## INTERNATIONAL

**HIGH PERFORMANCE MEETS RESPONSIBILITY  
· LUBRICANTS FOR A NEW GENERATION.**

**METALWORKING FLUIDS ·  
WATER-MISCIBLE COOLANTS**

Voitländer-International, your partner for high-performance lubricants in modern metalworking, where precision and quality make the difference.

MADE IN GERMANY

ISO 9001:2015 CERTIFIED

**FULL PRODUCT RANGE  
ONLINE**

[www.voitlaender-international.com](http://www.voitlaender-international.com)  
[/qr/metalworking/range/](http://www.voitlaender-international.com/qr/metalworking/range/)



## TECHNICAL SERVICE

### Comprehensive analysis

detailed examination of your in-service metalworking fluids for optimal performance

### Experience and know-how

decades of expertise in lubricant development and customization

### Precise recommendations

custom-tailored solutions based on exact laboratory results

### Innovative technologies

state-of-the-art testing methods for maximum quality and efficiency

### Partnership

we support you from the first idea to final implementation

## ABOUT US

# ABOUT VOITLÄNDER-INTERNATIONAL

## • INNOVATION MEETS EXPERIENCE

- ◆ **Voitländer-International unites more than 180 years of German lubricant manufacturing with the innovative drive of a modern startup. From the fusion of a heritage company dating back to 1843 with LubeLabs, a young specialist focused on high-performance industrial lubricants, a new brand emerged: the best of both worlds, heritage and innovation combined.**
- ◆ **Today, Voitländer-International develops and produces industrial lubricants for applications where precision and quality are decisive. This catalog presents our water-miscible metalworking fluids, part of a full-range portfolio of more than 2,000 high-quality products, made in Germany and certified to ISO 9001:2015.**
- ◆ **What sets us apart is not only the product, but the partnership: our laboratory analyzes your in-service metalworking fluids, adapts formulations to your process and supports you from the first idea to the final implementation. Custom-tailored solutions are based on exact laboratory results.**

Our roots: the original Voitländer works, est. 1843, merged with LubeLabs (Green Industrial Lubricants) to form Voitländer-International. Innovation meets experience, setting tomorrow's standards.



## PRODUCT OVERVIEW

# PRODUCT SELECTOR · WHICH COOLANT FITS YOUR APPLICATION?

Seven water-miscible metalworking fluids in three families, from the economical all-rounder to the heavy-duty specialist. All values from the current technical data sheets.

| PRODUCT               | RECOMMENDED CONCENTRATION | REFRACTOMETER FACTOR | POSITIONING                                                                           | PAGE |
|-----------------------|---------------------------|----------------------|---------------------------------------------------------------------------------------|------|
| <b>Valuecool</b>      | 5-10 %                    | 1.5                  | Cost-effective all-rounder for light- to medium-duty machining                        | 4    |
| <b>Valuecool PLUS</b> | 5-10 %                    | 1.5                  | Hard-water-stable upgrade with excellent bio-stability                                | 5    |
| <b>Labscool P100</b>  | 6-10 %                    | 1.1                  | Universal coolant for medium- to heavy-duty machining                                 | 6    |
| <b>Labscool SKIN</b>  | 6-10 %                    | 1.0                  | Amine-free · formulated for exceptional skin compatibility                            | 7    |
| <b>Labscool BRASS</b> | 6-10 %                    | 1.1                  | High performance on copper alloys · stain protection for yellow metals                | 8    |
| <b>Alloylabs ALU</b>  | 6-10 %                    | 1.1                  | Heavy-duty machining of high-alloy steels and aluminum alloys; optimized for aluminum | 9    |
| <b>Alloylabs NIRO</b> | 5-10 %                    | 1.2                  | Built for extreme duty: heavy machining and deep-hole drilling                        | 10   |

Refractometer factor: concentration % = °Brix reading × factor. Rating scale used on all product pages: O = not recommended · + = suitable · ++ = good · +++ = very good · ++++ = excellent

# Valuecool

Dependable everyday performance at an attractive cost per liter.

Valuecool delivers dependable everyday performance at an attractive cost per liter. The modern water-miscible metalworking fluid handles light- to medium-duty machining and grinding of steel alloys and performs equally well on aluminum. High product stability and very good corrosion protection keep central systems and stand-alone machines running cleanly, with little maintenance effort. For shops that want one straightforward coolant for a broad everyday workload, Valuecool is the economical choice in the Voithlender-International range.

## TECHNICAL BENEFITS

- FOR CENTRAL SYSTEMS AND STAND-ALONE MACHINES
- HIGH PRODUCT STABILITY
- VERY GOOD CORROSION PROTECTION
- BROAD MATERIAL COVERAGE FOR EVERYDAY MACHINING
- ECONOMICAL PRICE-PERFORMANCE RATIO

## KEY DATA

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| CONCENTRATION        | 5-10 % (general application)                                                                  |
| REFRACTOMETER FACTOR | 1.5                                                                                           |
| CORROSION TEST       | DIN 51360/2, rating 0/0 at 4 % concentration · even below the minimum operating concentration |
| PACK SIZES           | pail 20 L · drum 208 L · IBC 1,000 L                                                          |

## MATERIAL SUITABILITY

| RATING | MATERIAL                      |
|--------|-------------------------------|
| ++     | Steel                         |
| ++     | Cast iron                     |
| ++     | Aluminum                      |
| +      | Copper alloys (brass, bronze) |
| ○      | Copper (pure)                 |
| ++     | Plastics                      |

○ = not recommended    + = suitable    ++ = good    +++ = very good  
++++ = excellent



**TYPICAL APPLICATIONS** CNC turning, milling and grinding of steel alloys in central systems and stand-alone machines; light- to medium-duty operations.

## FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS  
[/qr/metalworking/valuecool/](https://qr.metalworking/valuecool/)



*All data are typical values, not specifications. Always refer to the current TDS and SDS.*

# Valuecool PLUS

**The hard-water specialist: stable where other emulsions fail.**

Valuecool PLUS takes the proven Valuecool platform further: excellent lime soap dispersing properties make it the specialist for hard water. Where other emulsions split or leave deposits, Valuecool PLUS stays stable, protects against corrosion and keeps machines clean. Excellent bio-stability extends sump life and reduces maintenance in central systems and stand-alone machines alike. If your water is hard and downtime is expensive, Valuecool PLUS secures your process, day after day, batch after batch.

## TECHNICAL BENEFITS

- STABLE IN HARD WATER · EXCELLENT LIME SOAP DISPERSING PROPERTIES
- EXCELLENT BIO-STABILITY FOR EXTENDED SUMP LIFE
- FOR CENTRAL SYSTEMS AND STAND-ALONE MACHINES
- HIGH PRODUCT STABILITY
- VERY GOOD CORROSION PROTECTION

## KEY DATA

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| CONCENTRATION        | 5-10 % (general application)                                                                  |
| REFRACTOMETER FACTOR | 1.5                                                                                           |
| CORROSION TEST       | DIN 51360/2, rating 0/0 at 4 % concentration · even below the minimum operating concentration |
| PACK SIZES           | pail 20 L · drum 208 L · IBC 1,000 L                                                          |

## MATERIAL SUITABILITY

| RATING | MATERIAL                      |
|--------|-------------------------------|
| ++     | Steel                         |
| ++     | Cast iron                     |
| ++     | Aluminum                      |
| +      | Copper alloys (brass, bronze) |
| ○      | Copper (pure)                 |
| ++     | Plastics                      |

○ = not recommended    + = suitable    ++ = good    +++ = very good  
++++ = excellent



**TYPICAL APPLICATIONS** Light- to medium-duty machining and grinding in regions with hard water; central systems with high bio-stability requirements.

## FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS  
[/qr/metalworking/valuecool-plus/](https://qr.metalworking/valuecool-plus/)



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# Labscool P100

**One universal fluid for medium- to heavy-duty machining and grinding.**

Labscool P100 is the universal answer for medium- to heavy-duty machining and grinding. Its modern formulation is free from boron and formaldehyde-releasing agents, offers excellent skin compatibility and delivers very good lubricity with very good corrosion protection. Excellent flushing behavior keeps machines and parts clean with low residue, while low foaming supports reliable operation at high delivery rates. Steel, cast iron and aluminum: Labscool P100 covers the core workload of modern machining shops with one fluid.

## TECHNICAL BENEFITS

- FREE FROM BORON AND FORMALDEHYDE-RELEASING AGENTS
- EXCELLENT SKIN COMPATIBILITY
- VERY GOOD LUBRICITY AND CORROSION PROTECTION
- EXCELLENT FLUSHING BEHAVIOR, LOW RESIDUE
- LOW-FOAMING, HIGH PRODUCT STABILITY

## KEY DATA

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| CONCENTRATION        | 6-10 % (general application)                                                                  |
| REFRACTOMETER FACTOR | 1.1                                                                                           |
| CORROSION TEST       | DIN 51360/2, rating 0/0 at 4 % concentration · even below the minimum operating concentration |
| PACK SIZES           | pail 20 L · drum 208 L · IBC 1,000 L                                                          |

## MATERIAL SUITABILITY

| RATING | MATERIAL                      |
|--------|-------------------------------|
| +++    | Steel                         |
| +++    | Cast iron                     |
| +++    | Aluminum                      |
| +      | Copper alloys (brass, bronze) |
| ○      | Copper (pure)                 |
| ++++   | Plastics                      |

○ = not recommended    + = suitable    ++ = good    +++ = very good  
++++ = excellent



**TYPICAL APPLICATIONS** Medium- to heavy-duty machining and grinding of steel, cast iron and aluminum; universal shop-floor use.

## FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/metalworking/labscool-p100/



*All data are typical values, not specifications. Always refer to the current TDS and SDS.*

# Labscool SKIN

**Operator protection first: amine-free, without compromising cutting performance.**

Labscool SKIN puts operator protection first without compromising cutting performance. The amine-free formulation, free from boron and formaldehyde-releasing agents as well, is designed for exceptional skin compatibility, ideal wherever operators have frequent fluid contact. Very good lubricity, very good corrosion protection and excellent flushing behavior make it a strong choice for medium-duty machining and grinding of steel, cast iron and aluminum. Healthy operators, clean machines, stable processes: Labscool SKIN covers all three.

## TECHNICAL BENEFITS

- AMINE-FREE FORMULATION
- FREE FROM BORON AND FORMALDEHYDE-RELEASING AGENTS
- EXCEPTIONAL SKIN COMPATIBILITY
- EXCELLENT FLUSHING BEHAVIOR, LOW RESIDUE
- VERY GOOD LUBRICITY, LOW-FOAMING

## KEY DATA

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| CONCENTRATION        | 6-10 % (general application)                                                                  |
| REFRACTOMETER FACTOR | 1.0                                                                                           |
| CORROSION TEST       | DIN 51360/2, rating 0/0 at 4 % concentration · even below the minimum operating concentration |
| PACK SIZES           | pail 20 L · drum 208 L · IBC 1,000 L                                                          |

## MATERIAL SUITABILITY

| RATING | MATERIAL                      |
|--------|-------------------------------|
| +++    | Steel                         |
| +++    | Cast iron                     |
| +++    | Aluminum                      |
| +      | Copper alloys (brass, bronze) |
| ○      | Copper (pure)                 |
| +++    | Plastics                      |

○ = not recommended    + = suitable    ++ = good    +++ = very good  
++++ = excellent



**TYPICAL APPLICATIONS** Medium-duty machining and grinding where operator skin contact is frequent; manual handling and rework stations.

## FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/metalworking/labscool-skin/



All data are typical values, not specifications. Always refer to the current TDS and SDS.

# Labscool BRASS

**Stain protection for yellow metals, full performance on steel, cast iron and aluminum.**

Labscool BRASS protects what other coolants attack: yellow metals. A highly effective copper corrosion inhibitor prevents copper-ion leaching and the formation of copper salts, protecting brass, bronze and copper from staining and discoloration, even in mixed-material production. At the same time it delivers the full Labscool performance package: very good lubricity, very good corrosion protection on ferrous metals, low foaming and clean rinsing. One fluid for steel, cast iron, aluminum and sensitive copper alloys.

## TECHNICAL BENEFITS

- COPPER CORROSION INHIBITOR PREVENTS COPPER-ION LEACHING
- STAIN PROTECTION FOR BRASS, BRONZE AND COPPER
- VERY GOOD CORROSION PROTECTION ON FERROUS METALS
- FREE FROM BORON AND FORMALDEHYDE-RELEASING AGENTS
- LOW-FOAMING, EXCELLENT RINSING BEHAVIOR

## KEY DATA

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| CONCENTRATION        | 6-10 % (general application)                                                                  |
| REFRACTOMETER FACTOR | 1.1                                                                                           |
| CORROSION TEST       | DIN 51360/2, rating 0/0 at 4 % concentration · even below the minimum operating concentration |
| PACK SIZES           | pail 20 L · drum 208 L · IBC 1,000 L                                                          |

## MATERIAL SUITABILITY

| RATING | MATERIAL                      |
|--------|-------------------------------|
| +++    | Steel                         |
| +++    | Cast iron                     |
| +++    | Aluminum                      |
| ++++   | Copper alloys (brass, bronze) |
| ++++   | Copper (pure)                 |
| +++    | Plastics                      |

● = not recommended    + = suitable    ++ = good    +++ = very good  
++++ = excellent



**TYPICAL APPLICATIONS** Machining and grinding of brass, bronze and other copper alloys; mixed-material shops processing yellow metals alongside steel and aluminum.

## FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

[/qr/metalworking/labscool-brass/](https://qr.metalworking/labscool-brass/)



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# Alloylabs ALU

**Heavy-duty performance on high-alloy steels and aluminum alloys, optimized for aluminum.**

Alloylabs ALU was developed for heavy-duty machining of high-alloy steels and aluminum alloys, and is optimized for aluminum. High lubricity reduces built-up edge and protects tools, while high product stability holds performance over a long service life. Outstanding rinsing and residue behavior removes chips reliably and keeps machines clean. For demanding aluminum and high-alloy steel operations, Alloylabs ALU delivers process security shift after shift.

## TECHNICAL BENEFITS

- DEVELOPED FOR HEAVY-DUTY MACHINING OF HIGH-ALLOY STEELS AND ALUMINUM ALLOYS
- OPTIMIZED FOR ALUMINUM ALLOYS, IDEAL FOR ALUMINUM MACHINING
- HIGH LUBRICITY REDUCES BUILT-UP EDGE
- HIGH PRODUCT STABILITY, LONG PRODUCT SERVICE LIFE
- EXCELLENT FLUSHING BEHAVIOR, LOW RESIDUE

## KEY DATA

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| CONCENTRATION        | 6-10 % (general application)                                                                  |
| REFRACTOMETER FACTOR | 1.1                                                                                           |
| CORROSION TEST       | DIN 51360/2, rating 0/0 at 4 % concentration · even below the minimum operating concentration |
| PACK SIZES           | pail 20 L · drum 208 L · IBC 1,000 L                                                          |

## MATERIAL SUITABILITY

| RATING | MATERIAL                      |
|--------|-------------------------------|
| ++++   | Steel                         |
| ++++   | Cast iron                     |
| ++++   | Aluminum                      |
| +      | Copper alloys (brass, bronze) |
| ○      | Copper (pure)                 |
| ++++   | Plastics                      |

○ = not recommended    + = suitable    ++ = good    +++ = very good  
++++ = excellent



**TYPICAL APPLICATIONS** Heavy-duty machining of high-alloy steels and aluminum alloys on modern CNC machines; aluminum-intensive production.

## FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/metalworking/alloylabs-alu/



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# Alloylabs NIRO

**Built for the toughest jobs: heavy-duty machining and deep-hole drilling.**

Alloylabs NIRO is built for the toughest jobs in the shop: heavy-duty machining and deep-hole drilling. Its high-performance formulation combines excellent lubricity with high wear protection, extending tool life where cutting conditions are most severe. Low foaming supports reliable coolant delivery in deep-hole operations, and very good corrosion protection safeguards machines and workpieces. When standard coolants reach their limits, Alloylabs NIRO keeps the process stable, the tools cutting and the parts within tolerance.

## TECHNICAL BENEFITS

- DEVELOPED FOR HEAVY-DUTY MACHINING AND DEEP-HOLE DRILLING
- EXCELLENT LUBRICITY UNDER SEVERE CUTTING CONDITIONS
- HIGH WEAR PROTECTION, LONG TOOL LIFE
- LOW-FOAMING FOR RELIABLE COOLANT DELIVERY
- VERY GOOD CORROSION PROTECTION

## KEY DATA

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| CONCENTRATION        | 5-10 % (general application)                                                                  |
| REFRACTOMETER FACTOR | 1.2                                                                                           |
| CORROSION TEST       | DIN 51360/2, rating 0/0 at 4 % concentration · even below the minimum operating concentration |
| PACK SIZES           | pail 20 L · drum 208 L · IBC 1,000 L                                                          |

## MATERIAL SUITABILITY

| RATING | MATERIAL                      |
|--------|-------------------------------|
| ++++   | Steel                         |
| ++++   | Cast iron                     |
| +++    | Aluminum                      |
| ○      | Copper alloys (brass, bronze) |
| ○      | Copper (pure)                 |
| ++++   | Plastics                      |

○ = not recommended    + = suitable    ++ = good    +++ = very good  
++++ = excellent



**TYPICAL APPLICATIONS** Heavy-duty machining and deep-hole drilling; demanding operations requiring maximum lubricity and tool life.

## FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/metalworking/alloylabs-niro/



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## SERVICES

# OUR SERVICES · MORE THAN A PRODUCT

The right fluid is only the beginning. Voithlender-International supports your process with laboratory expertise and custom development: services that large corporations reserve for their largest accounts.

**01****FREE FLUID ANALYSIS**

detailed examination of your in-service metalworking fluids for optimal performance and sump life

**02****CUSTOM-TAILORED DEVELOPMENT**

formulations adapted to your materials, water quality and process

**03****LABORATORY AND TECHNICAL SERVICE**

precise recommendations based on exact laboratory results

**04****RESEARCH AND DEVELOPMENT**

state-of-the-art testing methods for maximum quality and efficiency

**05****TRAMP OIL AND BATH MAINTENANCE GUIDANCE**

keep your coolant stable and your machines clean

**REQUEST A FREE FLUID ANALYSIS**

[technology@voitlaender-international.com](mailto:technology@voitlaender-international.com)

**CONTACT**

</qr/metalworking/contact/>



## AN INDUSTRY PARTNER FOR MORE THAN 180 YEARS

High Performance Meets Responsibility · Lubricants for a New Generation.



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