

Lovibond® Water Testing Tintometer® Group



Cutting Fluid Test Kit

For the optimal effectiveness of cutting fluids



- Ensures compliance to regional Health and Safety at Work Procedures
- Optimises cutting fluid performance
- Safely controls microbiological contamination
- Optimised for accurate trend analysis

Part Number: 56K701180

Cutting fluids are required in metal machining to improve tool life, reduce work piece thermal deformation, enhance surface finish and to flush chips from the cutting zone. These fluids degrade with time due to bacterial growth and contamination with tramp oil.

Testing is essential since health risks exist for lathe operators by both fluid contact (dermatitis) and breathing of the mist/vapour (asthma, extrinsic allergic alveolitis and other breathing problems).

Biocidal additives improve the life of the fluid and reduce the hazard to health. On-going monitoring, inspection and maintenance are required in the UK as part of an employer's obligation under Section 2 of the Health and Safety at Work Act 1974. Similar work related mandates are in force across Europe.

Lovibond® test kits measure the key parameters necessary to optimise cutting fluid performance and enable enumeration and safe control of microbiological contamination. The basic kit is supplied with tests for cutting fluid concentration (refractometer), pH, water hardness, Nitrite/Nitrate and dipslides for monitoring microbiological activity. A deluxe version, incorporating the DI 10 dipslide incubator is also available. A uniform incubation temperature for dipslides allows accurate microbiological trend analysis month on month.

Industry

Industries Others

Application

Cooling Water | Disinfection Control

Measuring Range

| Test Name | Measuring Range |
|------------------------------|--|
| Glycol | % PEG/MEG |
| Nitrate/Nitrite | 1 - 80 mg/L NO ₂ ⁻ |
| pH | 0 - 14 |
| pH | 7 - 14 pH |
| Total Count / Yeast & Moulds | |

Delivery Scope

- Plastic case
- SD40 Multi Pocket Tester
- Syringe plastic, 20 mL
- 2 Titration jars with cap, plastic, 60 mL
- Glycol Refractometer
- D003 TTC/RBS Dipslides (Rose Bengal)
- pH Buffer 4
- pH Buffer 7
- pH Buffer 10
- pH Test Strips, pH 7-14, plastic
- Nitrate/Nitrite Test Strips, 10-500/1-80 mg/L
- Instruction manual

| Title | Part Number |
|---|-------------|
| Syringe, plastic, 20 mL | 56A006501 |
| Titration jar with cap, plastic, 60 mL | 56A006701 |
| D003 TTC/RBS Dipslides (Rose Bengal) (pack of 10) | 56B010310 |
| KS3-pH 10 Buffer Solution | 56L000365 |
| KS6-pH 4 Buffer Solution | 56L000665 |
| KS9-pH 7 Buffer Solution | 56L000965 |

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