Where, Why, What And How To Analyse

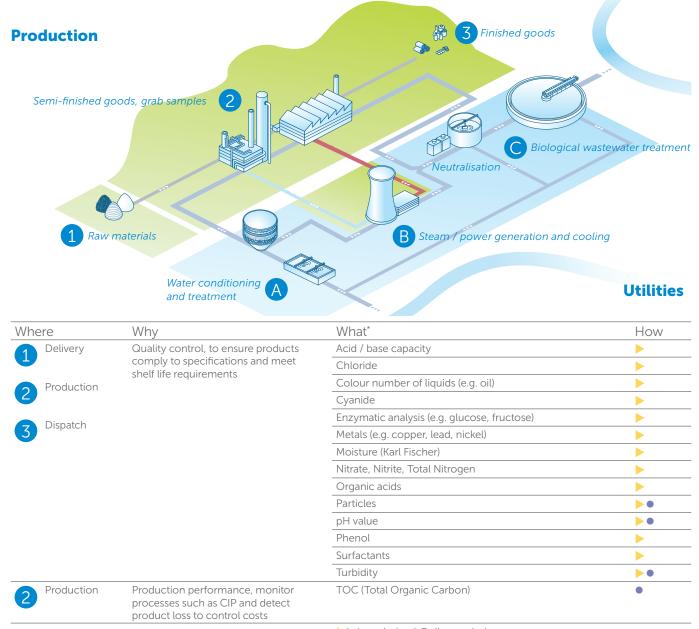
You need to be sure

- That your products comply to your high quality standards
- That your production runs efficiently without unplanned interruptions
- That you do not suffer unneccessary product loss
- That your wastewater complies to regulatory requirements.

This means that the analytics processes and products you rely on to make informed decisions must be accurate, reliable and informative all the time.

The Hach analytics portfolio is designed to give you confidence. From a simple, dedicated meter to on-line measurement or wastewater treatment optimisation our solutions are based on years of innovation and a desire to provide the simplest way to results you can trust. Our products, application support and local service help you achieve:

- Maximised uptime of equipment and production
- Consistent, high quality finished products
- Analytics solutions that give a real return on your investment







INDUSTRY

| here 'here | Why | What* | How |
|--|--|----------------------|---------------|
| A Water conditioning and treatment | Process efficiency, control biocide dosing and cost | Chlorine total, free | > • |
| | Quality control, simple check on incoming water quality | Conductivity | > • |
| | Production performance, check impact on pre-treatment costs or potential for in-plant scale/deposits | Hardness | • |
| | Plant life/efficiency, check potential for in-plant corrosion | pH value | > • |
| | Production performance, check potential for non-ionic inorganics to cause deposits | TOC | • |
| | Quality control, check effectiveness of filtration and microbiological quality | Turbidity | • |
| B Steam / power generation and cooling | Plant life/efficiency, control oxygen scavenger dosing that reduces corrosion | Oxygen | • |
| | Plant life/efficiency, control phosphate addition that reduces corrosion and deposits | Phosphate | • |
| | Plant life/efficiency, an indicator of efficiency loss in ion exchangers or membrane systems used for pre-treatment | Sodium | • |
| Neutralisation | Regulatory compliance, monitor treatment process performance and ensure compliance with legal limit values | pH value | > • |
| | | Conductivity | > • |
| | | Redox potential | > • |
| Biological wastewater treatment | Regulatory compliance, monitor and optimise treatment process performance, and ensure compliance with legal limit values | Conductivity | > • |
| | | Flow | • |
| | | Nutrients | > • |
| | | Oxygen | • |
| | | pH value | > • |
| | | Sludge level | • |
| | | Solids | • • |

^{*} For additional parameters and solutions please contact your local Hach representative or visit our website.



Benchtop and portable instruments for lab analysis inspection, maintenance and equipment qualification services available

