

# Consumables for etching and analyzing



## Qprep Etching



QATM offers a wide range of etchants for contrasting as well as for qualitative and quantitative analysis of microstructures. Different QPREP etchants are available for macro and micro etching as well as electrolytic etching.

Item No.	Unit	Description
<b>ELECTROLYTES (CONSISTING OF TWO COMPONENTS; TOTAL VOLUME 1 LITRE)</b>		
<b>Description</b>		
<b>Electrolyte for stainless steel, aluminum, aluminum alloys and special materials</b>		
• for electrolytic etching/polishing		
92002680	1 Pc.	KI - Part A, equals 1 litre in combination with Part B
92002980	1 Pc.	KI - Part B (perchloric acid), equals 1 litre in combination with Part A
<b>Electrolyte for titanium</b>		
92003011	1 Pc.	TI - Part A, equals 1 litre in combination with Part B
92003012	1 Pc.	TI - Part B (perchloric acid), equals 1 litre in combination with Part A
<b>Electrolyte for grey iron</b>		
92003014	1 Pc.	FI - Part A, equals 1 litre in combination with Part B
92003015	1 Pc.	FI - Part B (perchloric acid), equals 1 litre in combination with Part A
• Shipping of hazardous materials will be charged extra		
• Download of Safety Data Sheets at <a href="http://www.qatm.com">www.qatm.com</a>		
<b>ACCESSORIES FOR QETCH 100 M (KRISTALL 650)</b>		
<b>Description</b>		
<b>Electrolyte-bottle with screw top</b>		
95003955	1 Pc.	Volume 1 litre
<b>Accessories set for Qetch 100 M (Kristall 650) in suitcase</b>		
Z6201001	1 Pc.	Suitcase (single-order No.): • 5 pcs V-ring (Order No.: 95003606) • 1 pc profile ring material, appr. 150 mm (Order No.: 06201052) • 1 pc flexible end piece for profile ring (Order No.: 06201051) • 1 pc tube cutter (Order No.: 95004030) • 10 pcs filter pads Ø 40.5 mm (Order No.: 95003985) • 1 pc dolphin clamp (Order No.: 82000374)



Item No.	Unit	Description
<b>ETCHANTS</b>		
<b>Description</b>		
<b>Ready-to-use etching solutions for microstructural contrasting</b>		
95014346	500 ml	VisiPro-I Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched and tempered steels and case-hardened steels)
95014347	1 l	VisiPro-I Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched and tempered steels and case-hardened steels)
<b>NEW</b> 95017581	500 ml	VisiPro-I Fast etchant for visualization of former austenite grain boundaries on quenched and tempered unalloyed and low alloy steels through bearing steels (e.g. 102Cr6). Etching time: approximately 2 to 6 minutes, depending on the material.
<b>NEW</b> 95017582	1 l	VisiPro-I Fast etchant for visualization of former austenite grain boundaries on quenched and tempered unalloyed and low alloy steels through bearing steels (e.g. 102Cr6). Etching time: approximately 2 to 6 minutes, depending on the material.
95014348	500 ml	VisiPro-II Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched, tempered case hardening steels and anti-friction bearing steels)
95014349	1 l	VisiPro-II Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched, tempered case hardening steels and anti-friction bearing steels)
95006393	1 l	Barker reagent (for Aluminum grain boundaries)
92002601	1 kg	Heyn Etchant (for steel, phosphorous segregations, macro etching, copper alloys, brass)
95000508	500 ml	Copper A, chloride version (for Cu, Cu-alloys, brass and bronze)
92002602	1 kg	Adler Etchant (for steel, weldings, macro etching)
92002603	1 l	Alcoholic picric acid, 5% Picral (for steel, martensite)
<b>NEW</b> 92006878	1 l	Alcoholic Nitric Acid 5% Nital (for unalloyed and low alloyed steels)
92002597	1 l	Alcoholic nitric acid, 3% Nital (for unalloyed and low alloyed steels)
92002596	1 l	Alcoholic nitric acid, 1% Nital (for unalloyed and low alloyed steels)
92002605	1 kg	V2A etchant (for austenitic steels), applied at approximately 60°C, contains the additive Dr. Vogel's economy etchant, which acts as an inhibitor and optimizes etching performance.
92002678	1 kg	Sodium hydroxide solution (for aluminum alloys)
92004240	1 kg	Oberhoffer Etchant (for steel, segregations, flow-lines, macro/micro etching)
92004492	1 kg	Kroll Etchant (for aluminum alloys, titanium)
92004493	1 kg	Fry Etchant (for steel, macro/micro etching, flow lines)
92004222	1 kg	CU2 etching fluid (copper, copper with sulfide and oxide inclusions)
92002750	1 kg	Sodium picrate (for cementite detection in steel)
95002313	1 l	Kalling 1 Etchant (for martensitic stainless steel)
95002347	1 kg	Kalling 2 Etchant (for nickel, nickel alloys, stainless steels, nickel-copper alloys)
95002434	1 l	Color etching according to Klemm I (for low carbon steels), stock solution
95002390	20 g	Potassium bisulfite for Klemm I
95002435	1 l	Color etching according to Klemm II (copper, solder joints), stock solution
95002391	50 g	Potassium bisulfite for Klemm II
95002436	1 l	Bechet-Beaujard Etchant, prior austenite grain boundaries
95002408	1 kg	Murakami Etchant (for hard metals, molybdenum/molybdenum alloys, chromium alloys, tungsten and tungsten alloys)
Download of Safety Data Sheets at <a href="http://www.qatm.com">www.qatm.com</a>		

## STORAGE BOTTLE FOR USED ETCHANT

### Description

<b>NEW</b> 95017528	1 l	Storage bottle for used etchant
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Item No.	Unit	Description
<b>ACCESSORIES FOR ETCHING</b>		
<b>Description</b>		
<b>Etching bowl, DURAN® glass with cover, heat-resistant</b>		
92002629	1 Pc.	Ø 60/H 40 mm
92002628	1 Pc.	Ø 80/H 50 mm
92002430	1 Pc.	Ø 100/H 60 mm
92002626	1 Pc.	Ø 150/H 80 mm
<b>Etching bowl, polyethylene (PE), with lid</b>		
95012078	1 Pc.	Ø 90/H 40mm
95012079	1 Pc.	Ø 110/H 55mm
95012080	1 Pc.	Ø 110/H 75mm
<b>Etching bowl, polypropylene (PP), with screw coupling</b>		
95012081	1 Pc.	Ø 60/H 60mm
95012082	1 Pc.	Ø 115/H 70mm
<b>Crucible tong</b>		
92002431	1 Pc.	Crucible tong, stainless
95008097	1 Pc.	Crucible tong, stainless with insulated handle

## Qprep Analyzing



When analyzing samples, QPREP offers support for the correct analysis of samples via specialist literature, cleaning products, desiccator, personal protective equipment, and more equipment.

Item No.	Unit	Description
<b>LAB ACCESSORIES AND EQUIPMENT</b>		
<b>Description</b>		
<b>Face protection shield according to DIN EN 166 13 - S complete protection of face, unlimited field of view, acids and bases, resistant, robust plastic material, shatterproof, scratch-resistant</b>		
95002951	1 Pc.	Face protection shield, according to DIN EN 166 13 - S
<b>Protective laboratory apron, made of PVC, with neck and side bonds, clean edges, without fabrics</b>		
95004848	1 Pc.	Protective laboratory apron, 900 x 1100 x 0.5 mm

Item No.	Unit	Description
<b>Nitrile gloves (single use), conforms to EN 420, EN 374</b>		
95008893	100 Pcs.	Nitrile gloves, conforms to EN 420, EN 374, size M
95007658	100 Pcs.	Nitrile gloves, conforms to EN 420, EN 374, size L
95008208	90 Pcs.	Nitrile gloves, conforms to EN 420, EN 374, size XL
<b>Protective gloves black, comply with standard EN 388, EN 374</b>		
NEW 95003208	1 Pair	Protective gloves black, comply with standard EN 388, EN 374, size L - high resistance to water-soluble chemicals - very durable
<b>Safety goggles conforms to EN 166, length-adjustable</b>		
92005963	1 Pc.	Safety goggles conforms to EN 166
<b>Mounting adhesive</b>		
92002779	100 g	Mounting adhesive 100 g, excellent bonding for metals and ceramics
<b>Cotton wool</b>		
92002630	200 g	Cotton wool
<b>Specimen cleaning wipes</b>		
92008773	100 Pcs.	Specimen cleaning wipes
<b>Sample protection laquer</b>		
92004428	300 ml	Sample protection laquer, spray (conservation of samples)
<b>Bottles</b>		
92008770	1 Pc.	Spray bottle, 250 ml
92002432	1 Pc.	Spray bottle, 500 ml
92004491	1 Pc.	Washing bottle with narrow neck, 500 ml
<b>Measuring cylinder</b>		
92004302	1 Pc.	Measuring cylinder, 50 ml
92004303	1 Pc.	Measuring cylinder, 100 ml
<b>Specimen drying unit</b>		
A5810355	1 Pc.	Specimen drying unit for set up on table
A5810419	1 Pc.	Specimen drying unit, with wall bracket

## CLEANING AGENTS FOR ULTRASONIC CLEANER

### Description

#### Cleaning concentrate, alkaline

- for universal use and intensive cleaning
- use 1 – 5%, pH 10 at 2%, removes oils, fats, silicon oil residues, pigments, ink and proteins

92002614	1 l	Tickopur R 33
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## CLEANING AIDS

### Description

- individually applicable for intensive cleaning

95004662	1 l	Ethanol, 99% denatured
95004663	5 l	Ethanol, 99% denatured
95004664	10 l	Ethanol, 99% denatured
92004510	1 l	Aceton, chemically pure, for degreasing of sample surfaces

## PANE CLEANING FOR FUME CUPBOARD

### Description

#### Pane cleaning set in suitcase

Z7510002	1 Pc.	• Pane wiper magnet • 2x 30 pcs. cleaning cloths
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Item No.	Unit	Description
<b>REPLICATION SET</b>		
<b>Description</b>		
<b>Replica system for non-destructive analyzing of microstructures quick cured 2 components compound for applying to surfaces; the cured replica can be removed easily and analysed directly</b>		
92006498	2x50 ml	2-components-compound
92006609	1 Pc.	Dosing gun
92008692	48 Pcs.	Mixing tube
<b>ASSEMBLY CLEANER</b>		
<b>Description</b>		
<b>for sample preparation, for replication set, in spray can</b>		
92004376	500 ml	Assembly cleaner spray
<b>PRECISION REPLICATION MATERIAL</b>		
<b>Description</b>		
<b>Replica system for surface structures (metallic or mineral), for surface roughness inspection (R, Ra)</b>		
95001664	900 ml	2-components-compound standard
<b>ACCESSORIES FOR MICROSCOPY</b>		
<b>Description</b>		
<b>Supporting accessories</b>		
92004109	1 kg	Plasticine
92002943	5 Pcs.	Microscope slides, metal, 76x26 mm
92004243	100 Pcs.	Microscope slides, glas, 32x24 mm
92004256	100 Pcs.	Microscope slides, glas, 40x24 mm
M1321000	1 Pc.	Specimen press • for parallel fixation of specimen on microscope slide • comfortable operation with minimal effort • compact, robust and durable • made of aluminum with anodised surface
<b>STORAGE OF SAMPLES</b>		
<b>Description</b>		
<b>Storage systems for readily prepared samples</b>		
92002898	1 Pc.	Disc cabinet 320 x 320 mm, for discs Ø 300 mm with 6 drawers
92002717	1 Pc.	Disc cabinet, 290 x 290 mm, for discs Ø 200 and 250 mm with 5 drawers
95012025	1 Pc.	Desiccator cabinet 310 x 525 x 375 mm
95012026	1 Pc.	Shelf for desiccator cabinet
92002868	1 kg	KC-drying pearls, for use with desiccator
A7500417	1 Pc.	Sample box, 320 x 320 x 58 mm for 56 Samples Ø 25-32 mm
A7500418	1 Pc.	Sample box, 320 x 320 x 58 mm for 25 Samples Ø 38-50 mm



Desiccator cabinet  
(95012025)

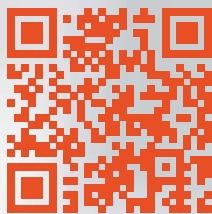
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