Introduction

One stop, integrated solution for all your metal finishing and metal coating requirements.

Al Taher Chemicals Trading LLC (ATC) is an ISO 9001:2015 & OHSAS 18001:2007 certified company and a tiered partner to all the major chemical brands and are pioneers in delivering Electroplating, Pre-Treatment & Hot Dip Galvanizing products and solutions across the GCC.

ATC are a leading chemical trading and an end to end solution provider for metal finishing including cutting, grinding and polishing in the UAE.

With over 20 years of in-depth experience, ATC delivers cost effective & efficient solutions and can be your ideal partner for all your metal coating and finishing requirements.

ATC is an associate concern of a 125 years old business house from India Abdul Husain Ghulam Husain & Sons. Founded in 2007 in the UAE, ATC has grown rapidly into a diversified solutions provider and has created successful references across the Middle East.

ATC partners with leading brands including Atotech, Ralf Thome, ilve, Eisenblätter, Karbosan, Osborn, Shinetex, Mefag, Lafonte, Mazurczak, Welkin among others.

Our Mission:

“Polish Today, Brighter Tomorrow” To us, this statement embodies the concept of human achievement and embraces the spirit of innovation, creativity and continuous improvement. We believe in designing and delivering solutions which bring tangible business value to our customers and enhance the human achievement of their employees.

Promise of Quality:

We promise to deliver our solutions ‘On Time, On Budget and On Target’ We are committed to integrating quality principles throughout our company. Every transaction, be it external or internal, with a client or with a service provider, follows quality certified processes. It is a passion for every ATC member to ensure that our customers are provided with information and deliverables as required. We emphasize the concept of the internal customer. Every ATC member has a customer, for some it may just be that the customer works under the same roof.
Functional Metal Plating

**Hard Chrome Plating**
- Conventional Bath
- Mixed Catalyst Bath
- Non Etching High Efficiency Catalyst Bath
  Our Speciality Atotech’s World No.1 And Proved Heef 25 Process
  - High Cathode Efficiency
  - Smooth, Bright Deposit
  - No Low Current Etching
  - Improved Distribution
  - Vickers Hardness OF 1000-1150
  - Micro Cracked Deposit Greater than 1000 Cracks/Inch
  - Can Use High Current Densities
  - Simple Maintenance And Control
  - Black Chrome - For Solar Panels Etc

**Electroless Nickel Plating**
- Low Phosphorous Electroless Nickel
- Medium Phosphorous Electroless Nickel
- High Phosphorous Electroless Nickel
  Our Speciality Atotech’s
  - GemEN Black
  - ElevEN MP
  - ElevEN HP
  - Armor A,R,M
  - Armor Hp – High Phosphorous Bath

**Tin Plating**
- Sulfuric Acid based solutions
- Methane Sulphonic Acid based solutions
- Low Sulfuric Acid NP free solutions

**Anodizing**
- Anodizing Plants
- Tanks
- Chiller
- Rectifier
- Anodizing Chemicals
- Cleaners
- Etching
- Chemical Brighting
- Anodizing Chemicals & Additives
- Dyes (Electro Dyes & Dipping Dyes)
- Sealing
- Cold Sealing
- Hot Sealing
- Nickel Free Sealing
Plating on Plastic

Conventional Process

Noviganth Process
(A Speciality Of Atotech)

Futron Process
(Very Special Process From Atotech)

Metal Coating, Paint & Powder Coating Stripper

Paint & Powder Coating Stripper
- Nickel Stripper From Copper And Copper Alloys
- Nickel Stripper From Mild Steel
- Chrome Stripper From Nickel, Mild Steel And Stainless Steel
- Gold Stripper From Copper And Nickel.
- Electroless Nickel Stripper
- Paint And Powder Coating Stripper
- Tech Strip 2010
- Tech Strip ZHF 93

Stainless Steel Pickling & Passivation
- 5.5 Pickling Paste
- 5.5 Pickling Liquid
- Passivation Liquid
- 5.5 316 Single Test Kit
- Pick n Pass Process
- Weld Brush
- Weld Brush Cleaning Solution

Metal Colouring, Metal Oxidation, Patina & Blackening

Vintage 266
- Room Temperature 5-20% Solution Wine Red To Buff Black On Copper, Brass And Alloys

Vintage 554C
- Room Temperature 5-20% Flame Red To Bluish Black On Copper, Brass And Alloys

Rashik Brasalt
- Room Temperature 1-2 % Greenish Red To Dark Black On Copper, Brass And Alloys

Silver Blackening
- Two Part Solution To Be Used At Full Strength

Room Temperature Blackening
- Jet Black Room Temperature Blackening On Mild Steel.

Hot Blackening
- Hot Blackening Solution For Mild Steel 120°-140° Centigrade

Paint & Powder Coating Stripper
- Tech Strip 2010
- Tech Strip ZHF 93

Stainless Steel Pickling & Passivation
- 5.5 Pickling Paste
- 5.5 Pickling Liquid
- Passivation Liquid
- 5.5 316 Single Test Kit
- Pick n Pass Process
- Weld Brush
- Weld Brush Cleaning Solution

Metal Colouring
Surface Treatment

Cleaners
- Aluminium Profiles
- Aluminium Castings
- M.S Sheets
- Galvanized Sheets (Alkaline & Acid based)

Deoxidation
- Aluminium Profiles
- Aluminium Castings
- M.S Sheets
- M.S Pipes

Aluminium Chromating
- Yellow Chromate
- Green Chromate
- Hexavalent Chrome Free Chromating

Phosphating
- Low Weight Zinc Phosphate Calcium Based
- Wire Drawing Zinc Phosphate
- Heavy Zinc Phosphate (Marine & Oil Field Parts)
- Iron Phosphate
- Manganese Phosphate
- Zirconium

Rust Removers
- 2 in 1
- 3 in 1

Rust Converters
- Normal
- Resin Based

Nickel
- Electrolytic Nickel - Size 4 Inch x Size 24 Inch
- S Nickel - Rounds, Pellet, Shots
- Nickel Sulphate
- Nickel Chloride
- Nickel Carbonate
- Ready To Use Nickel Salts

Copper
- Electrolytic Copper
- Phosphorized Copper
- Oxygen Free Copper
- Copper Sulphate
- Copper Cyanide
- Copper Chloride
- Copper Nitrate

Zinc
- Zinc Ingots Special High Grade 99.995% Lme Registered
- Zinc Ingots High Grade 99.975%
- Zinc Balls
- Zinc Oxide 99%
- Zinc Sulphate
- Zinc Chloride
- Zinc Dust

Tin
- Tin Ingots 99.97%
- Tin Sulphate (Stannous Sulphate)
- Tin Chloride (Stannic Chloride)
- Tin Lead Solder

Lead
- Lead Ingots 99.9%
- Lead Tin Alloved Anodes For Chrome Plating
- Lead Shots (1mm - 3.5mm)
- Lead Sheets (0.5mm - 30mm)
Hot Dip Galvanizing Plants & Chemicals

Hot Dip Galvanizing Complete Plants

- Tanks for Pretreatment
- Dryer for Flux
- Zinc Melting Crucible with Furnace & Firing System
- Exhaust System
- Effluent Treatment Plants

Chemicals

- Acid Degreaser
- Alkaline Degreaser
- Pickling Acid
- Pickling Inhibitor & Activator
- Fluxes (Wet, Dry & Blanket)
- Passivation (Hexavalent & Trivalent)

Zinc & Metals

- High Grade Zinc
- Special High Grade Zinc
- Nickel Tablets
- Aluminium Ingotes

Abrasive Blasting

- Sand Blasting Machines
- Shot Blasting Machines
- Glass Beads Blasting Machines
- Ceramic Beads Blasting Machines

Accessories

- Filter for Degreaser
- Filter for Flux
- Heaters for Alkaline Degreaser
- Temperature Controller
- Glycerine
- Hydrogen Per Oxide
- Extra Tanks
- Extra Crucible

Speciality Chemicals

Lubricants

- Rust preventive oils
- Wetting & dispersing oils
- Soluble cutting oils
- Hydraulic oils
- Neat cutting oils
- Transformer oils

Specialty Paints & Aerosols

- Zinc rich paint
- Zinc rich paint aerosol
- Zinc paint pigment
- Zinc paint pigment aerosol
- Black color aerosol
- White color aerosol

Cleaners & Degreasers

- Heavy soil degreaser
- Glass & aluminum cleaners
- Environment friendly lemon cleaner
- Acid inhibitor
- Descale
- Oil spill degreasers
- Electronic Degreasers
- MPC electraclean
- Multimetal cleaner

Table 1: Summary of the results of adding metals to the galvanizing kettle

<table>
<thead>
<tr>
<th>Additive</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium</td>
<td>Increased fluidity, better drainage</td>
</tr>
<tr>
<td>Bismuth</td>
<td>Increased fluidity, better drainage</td>
</tr>
<tr>
<td>Lead</td>
<td>Improved fluidity, better drainage</td>
</tr>
<tr>
<td>Nickel</td>
<td>Control of passivating reactive steels</td>
</tr>
<tr>
<td>Tin</td>
<td>Better overall appearance</td>
</tr>
</tbody>
</table>

Note: A summary of the results of adding various metals to the galvanizing kettle is shown in the table above.
Plants & Equipment

Electroplating Plants
- Manual Electroplating Plants Rack And Barrel
- Semi Automatic Electroplating Plants Rack And Barrel
- Fully Automatic Electroplating Plants Rack And Barrel
- Electroless Nickel Plating Plant

Electroplating Rectifier
- Air Cooled Rectifiers: 50-2000 Amps /10 Volts Or 1Gbt, SCR/Modular 12Volts Or 15 Volts
- Water Cooled Modular Rectifier: 500-50000 Amps /10 Volts Or 12Volts Or 15 Volts
- Oil Cooled Rectifier: 50-25000 Amps /10 Volts Or 12Volts Or 15 Volts
- Pulsating Rectifier For Gold Plating

Filter Units
- Pp Body Filter Disc Type - 1000-20000 Ltrs Per Hour
- Ms Body PVC Lined Filter Disc Type - 1000-20000 Ltrs Per Hour
- Pp Body Filter Cartridge Type - 1000-20000 Ltrs Per Hour
- Ms Body Filter Cartridge Type - 1000-20000 Ltrs Per Hour
- PVDF Body Filter Disc Type - 1000-20000 Ltrs Per Hour For Highly Corrosive Solutions Like Chromic Acid

Barrel Unit
- Barrel Unit Manual Lifting With One Drum 35 Kg Capacity
- Barrel Unit Manual Lifting With Two Drum 35 Kg Capacity
- Barrel Unit Manual Lifting With One Drum 50 Kg Capacity

Dryer Unit
- Dryer Unit Simple With Centrifuge Basket Mild Steel/Stainless Steel 15Kg/30Kg
- Dryer Unit With Air Blower And Heater Complete With Centrifuge Basket Mild Steel/Stainless Steel

Plants & Equipment

Turbine Air Blower
- 2 H.P Motor Capacity
- 3 H.P Motor Capacity
- 5 H.P Motor Capacity
- 7 H.P Motor Capacity

Ultrasonic Cleaning Machines
- Ultrasonic Cleaner Units

Scrubbers
- 5000, to 30,000 CFM Scrubbers for Scrubbing Hazardous Fumes & Gases.

Pumps
- Magnetic Drive Pumps
- Vertical Pumps
- Double Seal Pumps
- Magnetic Drive Pumps
- Diaphragm Pumps
- Drum Pumps

Tanks
- PVC Tanks
- PP Tanks
- PVDF Tanks
- Rubber Lined Tanks
- FRP & GRP Tanks
- Lead Lined Tanks

Heaters & Temperature Controllers
- 5.5 Heaters
- Titanium Heaters
- Lead Bonded Heaters
- Teflon Heaters
- Ceramic Heaters
- Quartz Glass Heaters
- Temperature Controller With Sensors
Grinding, Buffing & Polishing

**Application Overview**

**Pipe Fix Duo**
- Belt dimensions: 60 x 260 mm

**Pipe Fix Smart**
- Belt dimensions: 9 x 533 mm

**Pipe Sniper®**
- Belt dimensions: 40 x 780 mm

**Pipe Max**
- Belt dimensions: 40 x 780 mm

**Varilex® Wsf 900 Duo**
- Belt dimensions: 30 x 600 mm
- Belt dimensions: 30 x 660 mm (T-lock)

**Gladius® 1800**
- Belt dimensions: 40 x 780 mm

**Trimfix® Product Qualities**
- Unique combination of high-tech abrasive cloth and natural fibre backing plate
- Natural fibre backing plates – entirely free of fibreglass, sustain-able and unrivaled Reduces strain on the user and environmental pollution 100 % developed and produced in Germany

**Trimfix® Hellfire® Ceramic Hybrid**
- Multigrain (40/60) for all metals (such as steel, stainless steel, titanium, bronze, aluminium …)
- New ceramic hybrid fabric allows grinding of workpieces with just one coarse to medium grit
- Reduced working steps due to grinding and finishing hybrid

**Trimfix® Zircopur®**
- High-tech zirconium fabric for high-performance grinding of steel and stainless steel
- Very good grinding results with unbeatable value for money
- Backing plate can be fully trimmed – entire disc can be used

**Magnum® Cool Top® 8**
- Longer, faster and more efficient grinding
- Abrasive cloth contains 100 % pure zirconium
- Cooling agents for an extremely high degree of material removal
- Slightly angled (5° angle)

**Tiger Shark® Elastic**
- Grinding disc does not smear when grinding aluminium
- TIGER SHARK® + ALU-FIX ÖL result in up to 300 % more material removal capacity and three times longer service life
- Visibly better grinding results
- Highly flexible backing plate adjusts to the workpiece.
Grinding, Buffing & Polishing

Magnum® Clean
- Pore-deep clean of metals and other materials
- Cleans without removing material from the workpiece and without damaging the basic material
- Does not smear, even when heavily soiled
  No metal content whatsoever and therefore no risk of corrosion

Hellfire® Ceramic Hybrid Sleeve
- HellFire® ceramic hybrid sleeve made from top quality ceramic cloth with several times the service life of conventional zirconium sleeves for all metals. Aggressive removal even on materials which are difficult to machine such as stainless steel, titanium, bronze, etc. Delivers particularly cool and non-slip grinding.

Ceramic Sleeve
- Ceramic sleeve made from top quality ceramic fabric with several times the service life of conventional zirconium sleeves for removing deep scratches, rust, scale and spot welds.

Zirconium Sleeve
- Grinding sleeves made from top quality zirconium fabric for removing deep scratches, rust, scale and spot welds.

Flap Wheel
- Grinding flap wheel for surface grinding
- With a vibration-damping core for single, double and quadruple spline shafts, ensuring the wheel runs perfectly for removing rust, oxide layers, paint, scratches and for textured and satin finishes on all metals.

Grinding, Buffing & Polishing

Sc Fleece Sleeve
- Technical surface conditioning fleece – ideally suited for removing oxide layers, deburring and fine grinding outstanding for decorative satin finish and linear grinding while at the same time eliminating minor scratches (possibly finish with POLY-PTX® fleece wheel of 60, 80 or 180 grit to eliminate grinding transitions).

Mix Wheel
- Combined fleece/grinding flap wheel
- Grit-impregnated, top quality nylon fleece with top quality corundum abrasive cloth for uniform fleece and abrasive cloth usage. This wheel has a more aggressive impact than pure fleece wheels due to this. With a vibration-damping core for single, double and quadruple spline shafts, thus, ensuring the disc runs perfectly.

Fleece Wheel
- Compact high-tech fleece wheel made from compressed nylon grit fleece for industrial grinding.
- It is possible to obtain a working width of 110 mm (fits all satin finish tools) with 60, 80 and 180 grits and a diameter of 115 mm.

Brightex® Polishing Sleeve
- For reconditioning surfaces that are mirror-polished mechanically
- Ideal for use with polishing machines and hand-held polishing tools
- For best results, use Eisenblätter care and cleaning products for removing polish residues
- Completely new high-tech paste formulation for metals

Felt Wheel
- First-class merino felt wheel made from special felt material with a vibration-damping core for single, double and quadruple spline shafts, thus ensuring the wheel runs perfectly can be used with greater contact pressure. Do not use different pastes or creams on the same felt wheel because leftover grit can ruin the finish.

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## Grinding, Buffing & Polishing

### Cotton Ring (Impregnated)
- Fine cotton rings for polishing. Impregnated version for non-ferrous metals do not use different pastes or creams on the same cotton ring. Ideal for high-gloss polishing of nonferrous metals, such as aluminum and brass. Ideal for uneven workpieces and corrugated sheet metals.

### Mirror Finishing Ring Soft
- Fine, soft polishing rings made from technical fleece. Do not use different pastes or creams on the same mirror finishing ring. Mirror finishing ring effect (final polish for stainless steel through to non-ferrous metals) – same result as using buff wheels. The spline shaft hole allows it to be slipped directly onto the POLY-PTX® 800 Professional 8 pces (1 pack) for 100 mm shaft.

### Brilliance Clean
- Streak-free cleaning
- Removes all kinds of minor contaminants lightning fast from all metal such as stainless steel, aluminum, copper, brass, etc.

### Inox Protect (Dry, Hard Wax)
- Protect and seal
- Cleans lightning fast and protects decorative surfaces from fingerprints and stains long-term with a transparent hard protective layer.

### Poly Seal (Oil Film)
- Clean and preserve
- Food-grade and ideal for decorative outdoor stainless steel surfaces, such as stainless steel doors, cladding, surfaces of railings, fountains, figurines, works of art, large kitchens and catering establishments.

### Kangaroo Alu-Fix Oil
- This special unique oil for grinding aluminium prevents flap discs from smearing and increases the service life and performance by up to 300%.
- Simply spray onto the workpiece before grinding and grind as normal.

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## Hook & Loop Discs

<table>
<thead>
<tr>
<th>Category</th>
<th>Abrasive</th>
<th>Product Code</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>F Paper</td>
<td>SC</td>
<td>CFR91</td>
<td>Ideal for sanding glass, stone, granite, ceramic, wood, aluminum, zamak, brass, copper and non ferrous materials, having F weight paper backing and Silicon Carbide abrasive grains, also antistatic and semi-open coating.</td>
</tr>
<tr>
<td></td>
<td>AO</td>
<td>AFR71</td>
<td>Ideal for sanding wood, low alloy steel and stainless steel (Inox) materials, having F weight paper backing and Aluminum Oxide abrasive grains, also antistatic and closed coating.</td>
</tr>
<tr>
<td></td>
<td>ZR</td>
<td>ZFR91</td>
<td>Ideal for sanding low alloy steel, stainless steel (Inox), high alloy steel, aluminum, zamak and wood materials, having F weight paper backing and Zirconia abrasive grains, also antistatic and semi-open coating.</td>
</tr>
<tr>
<td></td>
<td>CE</td>
<td>CEFR91</td>
<td>Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminum, zamak and wood materials, having F weight paper backing and Zirconia abrasive grains, also antistatic and semi-open coating.</td>
</tr>
<tr>
<td>X Cotton Cloth</td>
<td>AO</td>
<td>AXOP21</td>
<td>Ideal for sanding wood, low alloy steel, stainless steel (Inox), brass, copper and non-ferrous metal materials, having X weight cotton cloth backing and Aluminum Oxide abrasive grains, also semi-open coating.</td>
</tr>
<tr>
<td></td>
<td>ZR</td>
<td>ZXR11</td>
<td>Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminum, zamak and wood materials, having X weight cotton cloth backing and Zirconia abrasive grains, also closed coating.</td>
</tr>
<tr>
<td>YY Polyester Cloth</td>
<td>SC</td>
<td>CYXR11</td>
<td>Ideal for sanding glass, stone, granite, ceramic, wood, aluminum, zamak, brass, copper and non-ferrous metal materials, having YY weight polyester cloth backing and Silicon Carbide abrasive grains, also closed coating.</td>
</tr>
<tr>
<td></td>
<td>AO</td>
<td>AYXR11</td>
<td>Ideal for sanding wood, low alloy steel, stainless steel (Inox), brass, copper and non-ferrous metal materials, having YY weight polyester cloth backing and Aluminum Oxide abrasive grains, also closed coating.</td>
</tr>
<tr>
<td></td>
<td>ZR</td>
<td>ZYXR11</td>
<td>Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminum, zamak, cast iron and wood materials, having YY weight polyester cloth backing and Zirconia abrasive grains, also closed coating.</td>
</tr>
<tr>
<td></td>
<td>CE</td>
<td>CEYXR21</td>
<td>Ideal for sanding wood, brass, copper and non ferrous metal materials, having YY weight polyester cloth backing and Ceramic abrasive grains, also semi-open coating.</td>
</tr>
</tbody>
</table>
Grinding & Polishing

Karbosan Coated Abrasives

AWR11
- Aggressive cutting
- High cut performance
- Increased productivity

Recommendation for Application: Grinding and finishing of welding parts and chips of various metals

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Type</th>
<th>Grit Range</th>
<th>Backing Material</th>
<th>Bond</th>
<th>Grain</th>
<th>Production Form</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWR11</td>
<td>Fibre Discs</td>
<td>24 - 36 - 40 - 50 - 60 - 80 - 100 - 120</td>
<td>Vulcanised Fibre 0.8 mm.</td>
<td>Resin / Resin</td>
<td>Zirconia / Alumina</td>
<td>Disc &amp; Roll</td>
<td>115 x 22 125 x 22 180 x 22</td>
</tr>
</tbody>
</table>

ZWR11
- Fast cut performance, long wear
- Increased productivity
- Cool cut / Long life

Recommendation for Application: Grinding and finishing of heavy metals / Stainless steel parts and edge

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Type</th>
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<td>Resin / Resin</td>
<td>Zirconia / Alumina</td>
<td>Disc &amp; Roll</td>
<td>115 x 22 125 x 22 180 x 22</td>
</tr>
</tbody>
</table>

ZWR51
- High cut performance
- Increased productivity
- Cool cut
- Extreme long life

Recommendation for Application: Grinding of high alloy / Stainless steel parts and edges, where heat absorbance is crucial

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Type</th>
<th>Grit Range</th>
<th>Backing Material</th>
<th>Bond</th>
<th>Grain</th>
<th>Production Form</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZWR51</td>
<td>Fibre Discs</td>
<td>24 - 36 - 40 - 50 - 60 - 80 - 100 - 120</td>
<td>Vulcanised Fibre 0.8 mm.</td>
<td>Resin / Resin</td>
<td>Zirconia / Alumina</td>
<td>Disc &amp; Roll</td>
<td>115 x 22 125 x 22 180 x 22</td>
</tr>
</tbody>
</table>

CER51
- Excellent grinding performance
- Cool & aggressive cutting
- Self sharpening effect

Recommendation for Application: Grinding and finishing of Stainless steel, high alloy steels, chrome, nickel, titanium

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Type</th>
<th>Grit Range</th>
<th>Backing Material</th>
<th>Bond</th>
<th>Grain</th>
<th>Production Form</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CER51</td>
<td>Fibre Discs</td>
<td>24 - 36 - 40 - 50 - 60 - 80 - 100 - 120</td>
<td>Vulcanised Fibre 0.8 mm.</td>
<td>Resin / Resin</td>
<td>Zirconia / Alumina</td>
<td>Disc &amp; Roll</td>
<td>115 x 22 125 x 22 180 x 22</td>
</tr>
</tbody>
</table>

CWR11
- Aggressive cutting
- Maximized cutting performance

Recommendation for Application: Sanding of ceramics, stone, marble, glass and metal

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Type</th>
<th>Grit Range</th>
<th>Backing Material</th>
<th>Bond</th>
<th>Grain</th>
<th>Production Form</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWR11</td>
<td>Fibre Discs</td>
<td>16 - 24 - 36 - 40 - 50 - 60 - 80 - 100 - 120 - 150 - 180 - 200 - 240 - 280 - 320 - 400</td>
<td>Vulcanised Fibre 0.8 mm.</td>
<td>Resin / Resin</td>
<td>Silicon carbide</td>
<td>Disc &amp; Roll</td>
<td>115 x 22 125 x 22 180 x 22</td>
</tr>
</tbody>
</table>

Grinding & Polishing

Abrasives Rolls

Shoproll
- J Flexible Cotton
- Suggested Application: Metal
- Possible Application: Wood

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Grain</th>
<th>Grit Range</th>
<th>Special Coating</th>
<th>Width (mm.)</th>
<th>Length (m.)</th>
</tr>
</thead>
</table>

AJR 11
- J Flexible Cotton
- Suggested Application: Metal
- Possible Application: Wood

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Grain</th>
<th>Grit Range</th>
<th>Special Coating</th>
<th>Width (mm.)</th>
<th>Length (m.)</th>
</tr>
</thead>
</table>

AJFR 11
- J Super Flexible Cotton
- Suggested Application: Metal / Stainless Steel
- Possible Application: Wood

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Grain</th>
<th>Grit Range</th>
<th>Special Coating</th>
<th>Width (mm.)</th>
<th>Length (m.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJFR 11</td>
<td>A/D</td>
<td>P 60-600</td>
<td>Special Coating</td>
<td>100 - 120 - 150 - 200 - 250 - 600</td>
<td>25 - 50</td>
</tr>
</tbody>
</table>

Endless Belts

AXR 11
- X Standard Cotton
- Suggested Application: Metal
- Possible Application: Wood / Plastic

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Grain</th>
<th>Grit Range</th>
<th>Special Coating</th>
<th>Width (mm.)</th>
<th>Length (m.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXR 11</td>
<td>A/D</td>
<td>P 36-120</td>
<td>Special Coating</td>
<td>15 x 454 / 75 x 533 / 75 x 610</td>
<td>100 x 610 / 100 x 920</td>
</tr>
</tbody>
</table>

ZXR 11
- X Stiff Cotton
- Suggested Application: Metal
- Possible Application: Wood

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Grain</th>
<th>Grit Range</th>
<th>Special Coating</th>
<th>Most used dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZXR 11</td>
<td>Z/A</td>
<td>P36-120</td>
<td>Special Coating</td>
<td>50 x 2000 / 75 x 2500 / 150 x 1000 / 100 x 3500</td>
</tr>
</tbody>
</table>

CXR 11
- X Waterproof Cotton
- Suggested Application: Glass / Stone
- Possible Application: Plastic

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Grain</th>
<th>Grit Range</th>
<th>Special Coating</th>
<th>Most used dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CXR 11</td>
<td>SiC</td>
<td>P60-400</td>
<td>Special Coating</td>
<td>30 x 533 / 100 x 1700 / 100 x 1830 / 100 x 3350</td>
</tr>
</tbody>
</table>
**Cutting Discs for Metal**

**AA 24 S BF80**

**Specifications:**
Inox cutting disc with its cutting speed on all types of stainless steel, gives you high performance and long product life. As it is non-ferrous, it doesn’t cause any rust on stainless surfaces.

**Where to use:**
Thick profiles, pipes, every type of solid stainless steel.

**Advantages:**
- Economic
- Long life

**Thinline**

**Specifications:**
Inox Thinline cutting disc combines comfort and high cutting speed performance for all types of stainless steel. Thanks to its thin and strong structure, it gives confidence to the user. As it is non-ferrous, it doesn’t cause any rust on stainless surfaces.

**Where to use:**
Pipe, profile, sheet plate and all general types of solid iron and steel.

**Advantages:**
- Economic
- Fast cut

**Cut&Cut**

**Specifications:**
Cut&Cut Thinline cutting disc combines comfort and high cutting speed performance for all types of iron and stainless steel. Thanks to its thin and strong structure, it gives confidence to the user. As it is non-ferrous, it doesn’t cause any rust on stainless surfaces.

**Where to use:**
Pipe, profile, sheetplate and all types of solid iron and stainless steel. Can be used on non-ferrous metals such as titanium, copper, aluminium.

**Advantages:**
- Smooth cut
- Fast cut

**Inox**

**Specifications:**
Industrial Metal Cutting Disc with its cutting speed on all types of steel in industry gives you high performance and long product life.

**Where to use:**
For every type of industrial iron and steel.

**Advantages:**
- Economic
- Fast cut
- Long life

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**A 36 T BF80**

**Specifications:**
With its long life and fast cutting, it’s a high performance disc for iron and steel cutting.

**Where to use:**
Especially for profile, pipe or general solid iron types and general construction steels.

**Advantages:**
- Economic
- Fast cut
- Long life

**Thinline**

**Specifications:**
Metal thinline cutting disc is a high performance cutting disc which combines your comfort with its smooth cut for all iron and steel types. Thanks to its thin and strong structure, it gives confidence to the user.

**Where to use:**
Pipe, profile, sheetplate and all general types of solid iron and steel.

**Advantages:**
- Economic
- Smooth cut
- High fast cut

**A 30 T BF80**

**Specifications:**
Cut&Cut Thinline cutting disc, combines comfort and high cutting speed performance for all types of iron and stainless steel. Thanks to its thin and strong structure, it gives confidence to the user. As it is non-ferrous, it doesn’t cause any rust on stainless surfaces.

**Where to use:**
Pipe, profile, sheet plate and all types of solid iron and stainless steel. Can be used on non-ferrous metals such as titanium, copper, aluminium.

**Advantages:**
- Smooth cut
- Fast cut
Specifications:
Metal grinding disc provides a high burr removal capability of general types of iron and steel to give maximum performance and long life.

Where to use:
Metal grinding of profile plates, rebar and steel structures, such as iron and steels. It’s generally used for surface grinding, rust removal, welding burrs and in processes like grinding of edges and burring after iron foundry operations.

Advantages:
• Economic
• High burr removal capability
• Long life

Specifications:
Metal Plus grinding disc provides a high burr removal capability of rail steels and high performance with long life for the general types of iron and steel, soft steels, hardened steels, cast irons, cast steel grades.

Where to use:
Metal grinding of profile, rebar and steel structures such as iron and steels, soft steels, hardened steels, cast iron and cast steel grades. It’s also used for rail steels surface grinding, rust removal, welding burrs, grinding of corners, burring after iron foundry operations and surface grinding of iron rails.

Advantages:
• High burr removal capability
• Long life

Specifications:
Stainless steel grinding disc provides a high burr removal capability and a maximum performance with long life for stainless steel materials; hardened steel and soft steel grades. It doesn’t contain iron, so that it doesn’t create the effect of corrosion on stainless steel surfaces.

Where to use:
It’s especially convenient for stainless steel sheets, stainless steel plates, general types of construction steels, soft steels, hardened steels, rail steels. It’s used for surface grinding, corner grinding, rust cleaning and in processes like burring after iron foundry operations and surface grinding of iron rails.

Advantages:
• High burr removal capability on stainless steel materials
• Long life
Grinding, Buffing & Polishing

### Cloth And Sisal Polishing Buffs

**Sisal / Cloth Wr & Only Cloth Wr Buffs**
- Household goods, pots and pans, appliances
- Polishing Aluminium
- Brushing steel tubes
- Car parts

**Sisal, Sisal / Cloth Buffs**
- Flat part processing, typically iron or stainless steel
- Processing Aluminium, non-ferrous metals
- Brushing steel tube

**Cloth Ek Buff & Non Woven Buff**
- Pots and pans finishing
- Holloware
- Sanitary fittings finishing
- Car parts processing
- Builders hardware processin

**Sisal, Sisal / Cloth Open Buffs**
- Polishing Aluminium, non-ferrous metals
- Builders hardware
- Car parts

**Cool Air**
- Specially designed for manual operations
- Pots and pans finishing
- Sanitary fittings finishing
- Car parts
- Builders hardware processing

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### Manual Polishing Programme

The manual polishing programme consists of 4 stages namely,
1. **Pre - Polishing**
2. **Polishing**
3. **Finishing**
4. **High gloss finishing**

All these stages are accomplished with the help of various products offered by Osborn Uppert.

#### 1. Pre - Polishing

Stitched sisal cloth mops are particularly useful for the following operations:
- First stage heavy duty mopping operations on steel and non-ferrous metals
- Removing grinding marks left from previous abrasive operations while processing stainless steel supplied untreated or treated with one of the several impregnation options and available with various treatments.

Stitching available as - 3/8": Open, 1/4":Medium, 3/16": Close

#### 2. Polishing

Stitched cloth mop B cloth & Superior B open mops

The best all-round mops for finishing steel and brassware, nickel, silver, copper etc. and for finishing nickel and chrome deposits. They are also available in conveniently stitched sections.

- Is an ideal general purpose medium hardness mop
- It’s used on brass, silver, copper, aluminium, chrome and plastic
- Available in loose discs also

#### 3. Finishing

G open (1.) and G stitched (2.) mops

- Soft mop for polishing silver, plastics and brassware
- Used also for colouring of brass, copper and pewter after polishing
- Loose discs are also available
- Also available in smaller diameters with sewn centres

#### 4. High gloss finishing

WDR / WC / WDF mops

Super soft open mops for extremely fine finishing of precious metals such as gold, silver, very soft metals and plastics.
Grinding, Buffing & Polishing Compounds

Liquid Paste Compositions

Liquid paste compositions are available to suit all applications from rough polishing to mirror finishing on all base materials from metals to plastic and wood. Osborn Lippert India also offers liquid compositions suitable for low and high pressure spray systems requiring special high viscosity compositions.

LU 2151 For heavy stock removal and prepolishing of ferrous alloys
LU 2161 For prepolishing of ferrous alloys
LU 2208 For medium duty stock removal and prepolishing of non ferrous alloys
LU 2358 Final finishing for S.S., M.S. and non ferrous alloys and bright (White Tinge) mirror finish
Coldax Cement - Cold setting cementaceous adhesive which needs no pre heating or curing. Used for loading optimum emery on bobbing wheels.

Solid Bar Compositions

Solid bar compositions are available for both, manual polishing and automatic feed applications. The compositions cover the entire surface finishing process from rough polishing to mirror finishing.

LU 1130 For cut and colour actions in just one operation
LU 1135 For heavy duty stock removal and polishing
LU 1227 For prepolishing of aluminium and non ferrous alloys
LU 1355 For final bright finish of various surfaces
LU 1357 With very fine abrasive content for first class final bright (White Tinge) mirror finishing
LU 1360 For first class final bright (Blue Tinge) mirror finish
LU 1372 For finishing brass
LU 1358 For first class final bright mirror finish on SS.

Coldax Cement

- Coldax Cement is a Cold Setting Cementitious Adhesive which is highly effective for Abrasive Coated Scruff Mops, Felt Bobs or other type of wheels.
- It sets quickly and doesn’t Softens under Heat.
- It is much stronger than Hide Glue which is traditionally being used.
- No prior heating required during application and is very easy to apply. It can be applied by a Ordinary Brush or by hands. Hands to be washed immediately with ample water.
- It contains no Ingredients of Animal Origin and hence does not deteriorate or emanate foul smell either before or during the application.
- It saves Power as no heating is required + also saves abrasive / emery as the same once applied works longer
- A very good solution for Pre-Polishing or initial surface treatment with no fatigue

Coated & Bonded Abrasives

- Abrasive Belts: Bonded, Coated, Nonwoven Belts
- In Regular Sizes And Custom Sizes (On Special Requirements), 3M Trizact Belts, Scotch Belts.
- Flap Wheels: Grits 36, 60, 80, 100, 120, 180, 220, 320, 400, 600 Sizes: 4 Inches – 10 Inches From ½ Inch Diameter To 2 Inch Diameter.
- Rubber Wheels: Rubber Wheel Pneumatic Type and Flap Type.

Accessories

- Plating Jigs
- Titanium Baskets
- Titanium Strips & Rods
- Copper Bus Bars & Rods
- Brass Rods
- P.P, P.V.C & P.V.D.F Rods
- P.P, P.V.C & P.V.D.F Sheets
- Filter Cartridges, Paper & Cloth
- pH Meters & pH Papers
- Thickness Testers
- Hardness Testers
- Timer & Ampere Minutes Counters
- D.P.T Test Kits
- Laboratory Chemicals & Glass Wares
- Water Treatment Machines & Chemicals
- Effluent Treatment Plants & Chemicals
- Oven & Furnaces
- Activated Carbon
- Emery Powders
- Empty Drums, Cans & I.B.C Tanks
Al Taher Chemicals Trading L.L.C