blue line

Spectrum Wheels

For specialist finishing of stainless steel, nickel alloy and aluminium components

ALCA TOOLS LIMITED
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Your Key to a Perfect Surface

Red - removal

» most aggressive
» least flexible
» fine finish
» user friendly

Application areas:

- **Fillet TIG weld removal: stainless steel fabrication**
  - Box section: square or rectangular
    - Balustrade, framework etc
  - Round or oval tubing
    - Balustrade, safety railing, hand rails, pipe work etc
- **Jet engine blades (Fan, compressor, turbine, guide vanes)**
  - Removal of small imperfections from casting / forging
    - Airfoil
    - Fillet radius (where airfoil meets platform)
  - Light deburring, edge radius
    - Root
    - Leading, trailing edge

Blue - finishing

» less aggressive
» more flexible
» fillet weld finishing
» bright satin finish

Application areas:

- **Fillet TIG weld cleaning: heat discolouration removal s/steel**
  - Box section: square or rectangular
    - Balustrade, framework etc
  - Round or oval tubing
    - Balustrade, safety railing, hand rails, pipe work etc
- **Fillet TIG weld finishing: bright satin finish after removal s/steel**
- **Fillet weld blending: Aluminium**
- **Jet engine components**
  - Fan, compressor and turbine blades, guide vanes, fuel lines etc
    - Refining scratches from bonded / coated abrasives after grinding
    - Following #150 / #180
- **Medical implants**
  - Refining scratches from bonded or coated abrasives after grinding
    - Following #150 / #180
- **Removal of small imperfections from casting / forging**

Grey - blending

» less aggressive
» more flexible
» fillet weld removal
» high quality finish

Application areas:

- **Fillet TIG weld removal: stainless steel fabrication**
  - Round or oval tubing with poor accessibility
    - Balustrade, safety railing, hand rails, pipe work etc
- **Smoothing Fillet TIG welds leaving bulk of weld mass: s/steel**
  - Box section: square or rectangular
    - Balustrade, framework etc
  - Round or oval tubing
    - Balustrade, safety railing, hand rails, pipe work etc
- **Jet engine components**
  - Fan, compressor and turbine blades, guide vanes, housings etc
    - Refining scratches from bonded / coated abrasives after grinding
    - Following #120
- **Medical implants**
  - Refining scratches from bonded / coated abrasives after grinding
    - Following #120
  - Removal of small imperfections from casting / forging

Green - polishing

» least aggressive
» most flexible
» fillet weld polishing
» high gloss finish

Application areas:

- **Fillet TIG weld gloss finishing: 'mirror' finish s/steel**
  - Above application areas, use after Red or Grey wheels

Spectrum Wheels - product availability:

Thickness - 3mm, 6mm, 12mm, 25mm
Diameters - 50mm to 203mm
» **50 and 75mm siafix available**
» **152 x 6 x 22 or 25mm std size for fabrication**

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