



SUPPLIERS OF

AbrasaPlate® Wear Plate
Specialised Welding Electrodes,
Wires & Powders
Coating Systems



Alloys International is a privately owned company formed in Australia in 1982 to market a comprehensive range of quality welding alloys and equipment for the maintenance, repair welding and thermal spraying industries.

Alloys International's management is committed to Quality and as such were the first company in our industry to gain third party certification through Bureau Veritas to ISO9001.

DISTRIBUTORS FOR



ABRASAPLATE®

WELD OVERLAY WEAR PLATE

AbrasaPlate® is a high quality chrome-carbide weld overlay (CCO) wear plate. It is available in various dimensions of hardfacing overlay, and mild steel backing plate. It is easy to work with, and can be rolled, welded, and formed. It is available in standard sheets of up to 2.2x3.0m, or cut to size for a specific application. Alloys can supply AbrasaPlate® with studs welded or holes drilled.

In applications where Q&T plate is used for wear resistance, AbrasaPlate® can offer significantly longer life. ASTM G65 wear tests compared to Q&T plate have up to 10 times better results. Available in stock sheet form or fully fabricated assemblies. Alloys International keep high quantities of AbrasaPlate® in stock.

Alloys International have been the East Coast of Australia's leading Wear Plate distributors for over 30 years.

ABRASAPLATE® CAN BE

- Welded
- Rolled
- Cut
- Fixed with studs

GRADES AVAILABLE

- **AP-3000** - High quality general purpose plate designed for medium impact and high abrasion. A high volume of hexagonal chrome carbides in a tough austenitic and martensitic matrix.
- **AP-6000** - Uniformly distributed hexagonal chromium and complex carbides imbedded in tough austenitic and martensitic matrix for high temperature applications.
- **AP-7000** - Increased chrome carbide content is achieved through the submerged arc welding process, resulting in higher abrasion resistance.
- **AP-X** (Cross Hatch) - A 2-3mm thick cross hatch weld overlay on top of any standard plate. Increases impact resistance, and allows the plate to become self protecting using a "rock box" effect.
- **AbrasaPipe®** - Internally hardfaced pipe designed for abrasion resistance. Prevents wear against fine particle slurries and dust.
- **AP-CF** (Crack Free) - A revolutionary plate with high hardness yet absolutely no cracks. Perfect for applications where a smooth surface finish and preventing hangup are important.

COMMON SIZES

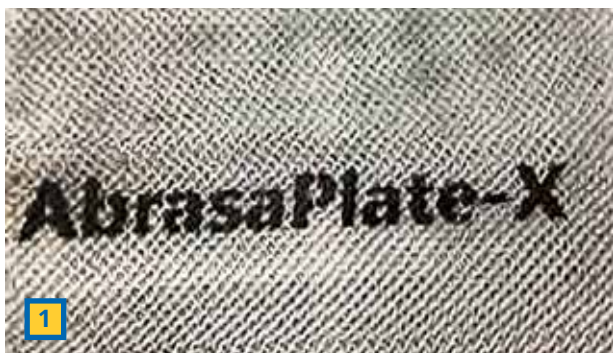
(Hardfacing thickness / Backing thickness)

- | | | |
|---------|--------------------------|---------|
| ■ 3/3 | ■ 4/4 | ■ 4/6 |
| ■ 5/8 | ■ 6/6 | ■ 6/8 |
| ■ 8/6 | ■ 8/8 | ■ 9/10 |
| ■ 9/16 | ■ 12/12 | ■ 17/12 |
| ■ 20/10 | ■ Other sizes on request | |

STANDARD SHEET SIZES

- 1.5m x 3.0m
- 2.2m x 3.0m
- 1.0m x 3.0m (Crack Free)

1. AbrasaPlate®-X (Cross Hatch)
2. AbrasaPlate - CF (Crack Free)
3. AbrasaPipe®
4. Rolled AbrasaPlate®



REPAIR AND MAINTENANCE CONSUMABLES

CONSUMABLES FOR

- MIG Welding
- Laser Cladding
- Open-arc welding
- Stick Welding
- TIG Welding
- Submerged-Arc Welding
- Electro-Slag Strip Cladding
- Plasma-Transferred-Arc (PTA) Welding
- HVOF Thermal Spray
- Arc-Spray



MAINTENANCE CONSUMABLES

- Low-hydrogen electrodes
- Alloys for dirty/dissimilar steels
- Cast-iron
- Stainless and Duplex
- Aluminium and Titanium

Alloys International stock large quantities of specialised welding and thermal spray consumables, and can provide expert advice on welding and cladding procedures and materials for solving wear problems, as well as for general maintenance and repair.

HARDFACING CONSUMABLES

- High-alloy iron-based hardfacing
- Chrome carbide
- Tungsten-carbide hardfacing
- Vanadium
- Cobalt and Nickel-based (Stellite®, Hastelloy® equiv.)

CONSUMABLES TO PROTECT AGAINST

- Abrasion
- Impact
- Corrosion
- High-temperature
- And any combinations of these

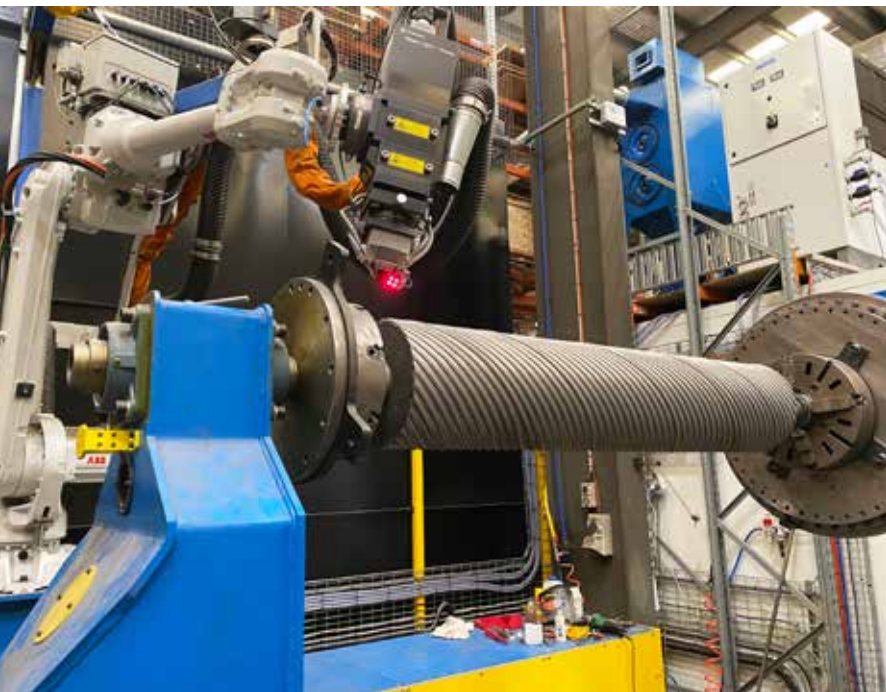


SPECIALISTS IN SURFACE ENGINEERING TECHNOLOGY



SUBMERGED ARC WELDING

Alloys supply a full range of competitively priced submerged arc (SAW) fabrication and cladding wires and fluxes. Ask us about our seamless metal cored wires, which will increase welding speed by over 30% compared to standard subarc consumables.



SURFACING EQUIPMENT

Alloys International sell equipment for surface engineering of various components. Systems can be custom made and turnkey solutions are available. We have supplied many of Australia's leading engineering workshops with surfacing technology.

- Laser Cladding
- Thermal Spray Systems (HVOF, HVOF, Arc Spray, Plasma)
- Plasma Transferred Arc (PTA) Welding
- Electro-Slag Strip Cladding (ESW)
- Bulk-Carbide Deposit Systems
- Submerged-Arc Welding
- Sugar Roll Arcing Machines
- Automated and Manual Manipulation, Control Systems and Robotics

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