

AI-1741

Description and Applications

AI-1741 is a cored wire used for hardfacing and rebuilding components subject to metal - metal wear and moderate abrasion with impact. The weld deposit microstructure is of a bainite and martensite structure and is ideal for heavy multi-layer build-up work. The weld deposit exhibits good machinability.

Applications include: Build-up of earthmoving equipment such as tractor rollers, idlers, chains and drive sprockets, excavator pads, electric shovel track pads, electric shovel track carrier rolls, steel shafts, trunnions, gears, crane wheels, mine car wheels, steel mill rolls, dredge pins, dredge links, mixer parts, rail car couplings, steel mill roll couplings and any components subject to metal - metal wear.

Typical Weldmetal Analysis

C	Mn	Si	Cr	Mo	Fe
0.14	1.5	0.5	1.6	0.35	Bal

Mechanical Properties of Weldmetal

	As Welded
Hardness	30 - 35 HRc
Shielding Gas	Argon + 15-20% CO ₂

Welding Parameters

Diameter (mm)	Current type	Amps
1.2	DC(+)	150-220
1.6	DC(+)	180-300

Also available as Sub Arc **AI-1641**, Open Arc **AI-1541** and Electrode **AI-0508**.

Welding Positions

(1G, 1F) Downhand/flat position, (2F) Horizontal position, (2G) Horizontal vertical position.

Disclaimer

All figures in this datasheet should be considered indicative only. No guarantee is made as to their accuracy.

All figures subject to change without notice. Batch analysis is available for all products sold. Should you require any further information, please contact us at sales@alloysint.com.au

