

AI-17600MC

Description

AI-17600MC is a premium seamless gas-shielded cored wire for the hardfacing of parts subject to the combination of extreme impact, pressure, and abrasive wear.

AI-17600MC is an example of an innovative, tailor-made product – developed to optimally fulfill requirements in the waste & recycling industry. It is a seamless, copper-coated, gas-shielded cored wire which exhibits exceptional ease of use for manual welding. It can be used in all welding positions and has excellent characteristics for the robotic welding of new and worn equipment.

When overlay welding onto 350 grade base material, a crack-free deposit with hardness of 55 HRC is already obtained in the first layer, increasing to 57-62 HRC with the following layers. As such, the full weld overlay thickness exhibits consistent high wear resistance, extending the useful life of the hardfacing.



Applications

Shredders, crushers, separators, pulpers, earth moving equipment, ground engaging tools, hammers.

Typical Weldmetal Analysis

C	Mn	Si	Cr	Fe
0.45	0.40	3.00	9.00	Bal

Mechanical Properties of Weldmetal

	As Welded
Microstructure	Martensite
Machinability	Grinding
Hardness Undiluted Weld metal	57-62HRc (Mixed Gas)
Shielding Gas	Ar + 20-25% CO₂

Machining Instructions

Preferred method of finishing would be **grinding**; however, it can be machined using special tools.





Typical Welding Parameters

Diameter (mm)	Current type	Amps	Volts	Stick-out (mm)
1.2	DC (+)	150-250	21-28	15-20
1.6*	DC (+)	180-300	24-30	15-20

Available in 16kg spool and 250kg drum.

*1.6mm special order only

Welding Positions

All positions

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



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