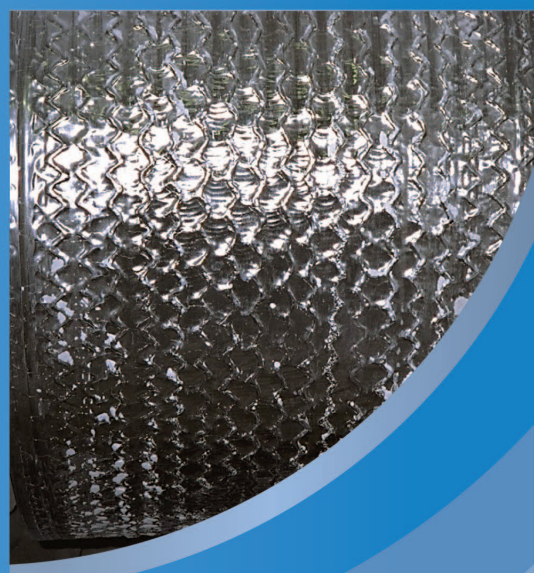
COREWIRE

HARDFACING CONSUMABLES



COREWIRE

Self-shielded flux-cored welding consumables for maintenance and repair applications

Product	Hardness	Ø, mm.	General Description	Applications
Build-up and Buffer Alloys				
CS70 AWS A5.20-95 E70T-4/ E70T-G	190-210 Hv	1.2-3.2	Designed for single and multi-pass welding of mild steel and medium tensile steels in the flat and horizontal-vertical positions.	On-site fabrication, field equipment maintenance and repair buffering before hardfacing.
CS70Ni AWS A5.20-95 E70T-4/ E70T-G	190-210 Hv	1.2-3.2	For single and multi-pass welding of mild steel and medium tensile steels in the flat and horizontal-vertical positions where improved impact properties are required.	On-site fabrication, field equipment maintenance and repair buffering before hardfacing.
SS307 AWS A5.22-80 E307T-3	200-240 Hv	1.6-3.2	18Cr-8Ni-4Mn stainless deposit, capable of work hardening to ~450Hv, for joining, repair and surfacing of manganese steels and other work-hardening alloys.	A buffer material prior to hardfacing and for welding difficult to weld steels. Also for joining dissimilar metals, and some armour plating.
Manganese and Rail Welding Alloys				
MN21 MF 7-GW-250-KP	220-250 Hv	1.2-3.2	A 14% manganese work-hardening Hadfield-type deposit that work hardens to ~450Hv, suitable for conditions of severe impact.	Heavy rock moving plant, hammer drills, and bucket teeth.
MN33 MF 7-GW-250-KP	240-270 Hv	1.6-3.2	A rapidly work-hardening 14% manganese - 14% chromium deposit that work hardens to ~450Hv.	Rails crossing (frogs), points, hammers, crushers, and earth moving equipment.
BS11B		1.2-2.4	An open-arc wire specifically developed for on-site welding of Rails. Excellent weldability. Available on 13Kg and 4.5Kg spools to suit mobile welding equipment.	Welding of BS11B rails in-situ or in workshops. Suitable for over ground and underground rail systems.
Martensitic Alloys				
CS300 MF1-GW-350-GP	34 HRc	1.2-3.2	A readily machinable deposit ideal for heavy build-up and as a base for harder finishing layers.	Caterpillar tracks, roller guides, slideways, and track wheels.
CS400 MF1-GW-40-GP	40 HRc	1.2-3.2	A machinable deposit that is suitable for applications subject to compression, impact and abrasion.	Punches, tractor rollers, idlers, roller guides, and caterpillar track components.
CS600 MF2-GW-55-GP	58 HRc	1.2-3.2	A general purpose hard surfacing material with a good balance of abrasion and impact resistance. Excellent weldability from such a hard alloy.	Bulldozer blades, excavator teeth, crusher jaws, bucket lips, scraper blades, and chutes.
CC108 MF6-GW-60-GP	55 HRc	1.6-3.2	A medium chromium martensitic deposit suitable for applications subject to high levels of abrasion and moderate impact.	Earth moving equipment, bucket teeth, scraper blades, ploughshares, dredgers, and chutes.
CC187TIC MF6-GW-60-GP	60 HRc	1.6-3.2	A martensitic deposit reinforced with dispersed titanium carbides. Suitable for applications subject to high levels of abrasion and moderate impact.	Earth moving and dredging equipment, scraper blades, cement works, ploughshares, crushers, chutes, and sugar processing plant.

Product	Hardness	Ø, mm.	General Description	Applications
Chrome Carbides				
CC522 MF 10-GW-60-G	59 HRc	1.2-3.2	A non-machinable chromium carbide based deposit.	Earth moving and dredging equipment, cement works, augers, crusher hammers and mixer blades.
CC524B MF 10-GW-60-G	62 HRc	1.6-3.2	A non-machinable boron enhanced chromium carbide deposit suitable for application up to ~500°C.	Wear plates, hoppers, crusher rolls, dragline and buckets.
CC527 MF 10-GW-60-G	59 HRc	1.6-3.2	A non-machinable chromium carbide based deposit.	Wear plate, earth moving equipment, conveyer screws, scraper blades, glass crushers.
CC31 MF 10-GW-65-G	64 HRc	2.4-3.2	A non-machinable chromium carbide based deposit with excellent resistance to abrasion at up to 400°C.	Wear plates, hoppers, crusher rolls, dragline buckets and dredging plant.
Complex Carbides				
CC43 MF 10-GW-65-G	64 HRc	1.6-3.2	A complex carbide deposit with excellent resistance to severe abrasion up to ~450°C, with some impact resistance.	Wear plate, screens, excavators, earth moving equipment.
CC45 MF 10-GW-65-G	64 HRc	1.6-3.2	A complex carbide deposit with excellent resistance to severe abrasion up to ~650°C.	Blast furnace bell and hoppers, sinter plant, screens, and wear plate.

Corewire Consumable Range

The Corewire brand represents over 30 years experience in the design, manufacture and application of hardfacing consumables. Through the use of high quality raw materials and investment in the manufacturing process, Corewire Ltd offers a premium range of hardfacing consumables that provide excellent weldability and consistent superior performance. Our flexible production process allows Corewire to manufacture products tailored to individual customer requirements and applications in addition to the established range of products used world wide.

Established in 1976, Corewire Ltd is amongst the world's leading producers of flux-cored welding consumables and machines for hardfacing and maintenance. Following considerable development, Corewire products are now offered under the Corewire, Weldclad and Forgeweld brands in recognition of the underlying technology and demands of client industries.

COREWIRE

Corewire branded products are designed for general hardfacing, repair and maintenance. The Corewire range of welding consumables includes low-alloy, tool steel, chrome carbide and complex carbide products. Corewire products are used extensively in the mining, quarrying, cement, agriculture and rail industries amongst others.

Weldclad

Weldclad is recognised as a world leader in the manufacture of submerged arc welding consumables and machines for the cladding of rolls, and associated components, used in steel making and non-ferrous industries. The product range includes proprietary tool steels and stainless steels designed to provide resistance to corrosion, wear and thermal fatigue.

Forgeweld

The Forgeweld range of welding consumables and machines are designed specifically for the repair and reclamation of dies, tools and auxiliary equipment used in the forging industry. The product range extends from low-alloy products for local repair of forging furniture to nickel based materials for the repair of open-forging hammers.

The product is only part of the service

Corewire Ltd endeavours to provide all our customers with a complete package of technical support, from welding procedures through to on-site training and consultation. Therefore, if you would like to discuss our products and services or your application further then please do not hesitate to contact us.

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