Alloy: COREWELD 5183 | Class: ER5183

ER5183 • Weld Process: MIG, TIG, Electron Beam & Oxyfuel Gas

CERTIFIED TO
AWS A5.10
ASME SFA A5.10

AWS CHEMICAL COMPOSITION REQUIREMENTS | DEPOSITED CHEMICAL COMPOSITION % (TYPICAL)

AWS REQUIREMENT (%)	
Si	0.40 max
Cr	0.05 – 0.25
Fe	0.40 max
Zn	0.25 max
Cu	0.10 max
Ti	0.15 max
Mn	0.50 – 1.0
Al	Remainder
Mg	4.3 – 5.2
Be	0.0003
Other	0.05 each – 0.15 max total

Deposited chemistry is influenced by many factors, so no typical analysis can be reported.

DEPOSITED ALL WELD METAL PROPERTIES % (AS-WELDED) | CHARPY-V-NOTCH IMPACT PROPERTIES %

Deposited all weld metal properties are influenced by many factors such as weld process used, so no typical weld metal properties can be reported.

CHARPY-V-NOTCH IMPACT
Not applicable

RECOMMENDED OPERATION OF WELDING RODS

Weld parameters are dependent upon the actual weld process being utilized.

APPLICATION

COREWELD 5183 ER5183 can be used on type base materials 5083 and 5456. Not recommended for sustained elevated temperature service. Assure proper storage to avoid contamination.

– The proper choice of aluminum filler metal mainly depends on the base metal properties to be achieved and welding technique. Post weld cracking, corrosion resistance and behavior under elevated temperature also need to be taken into consideration.

– Cracking usually can be minimized by choosing a filler metal alloy of higher alloy content than the base metal.

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