

ARCOS 59

PROCESSES: GTAW/GMAW/SAW

CLASSIFICATIONS: ERNiCrMo-13, AWS A5.14, ASME SFA 5.14, UNS N06059

DESCRIPTION: ARCOS 59 is a nickel-chromium-molybdenum alloy with extra low carbon and silicon contents. It offers excellent corrosion resistance, high mechanical strength and better thermal stability. Because of its low silicon and carbon contents and no tungsten, Arcos 59 is not prone to grain-boundary precipitation during hot forming and welding.

APPLICATIONS: Arcos 59 is well suited for welding in a wide variety of chemical processing facilities in both oxidizing and reducing media. This wire provides exceptional weldability and very low sensitivity to hot cracking.

DIAMETERS: .035", .045", .063", 3/32", 1/8", 5/32", 3/16"

TYPICAL MECHANICAL PROPERTIES:

Tensile Strength (psi)	110,000
Percent Elongation	45

TYPICAL CHEMICAL COMPOSITION:

C	Mn	P	S	Si	Ni
.005	.3	.01	.003	.005	59.0
Cr	Mo	Al	Fe		
23.0	16.0	.2	.5		

ARCOS 59

PROCESS: SMAW

CLASSIFICATIONS: ENiCrMo-13, AWS A5.11, ASME SFA 5.11, UNS W86059

DESCRIPTION: Featuring outstanding weldability and very low sensitivity to hot cracking, Arcos 59 provides superb corrosion resistance and high mechanical strength. This electrode is a nickel-chromium-molybdenum alloy with extra low carbon and silicon contents. Due to its chemical composition, Arcos 59 is resistant to attack by chloride ions in low PH media.

APPLICATIONS: Arcos 59 is not prone to grain-boundary precipitation during hot forming and welding. It is, therefore, a good choice for welding in the corrosive environment of chemical processing plants.

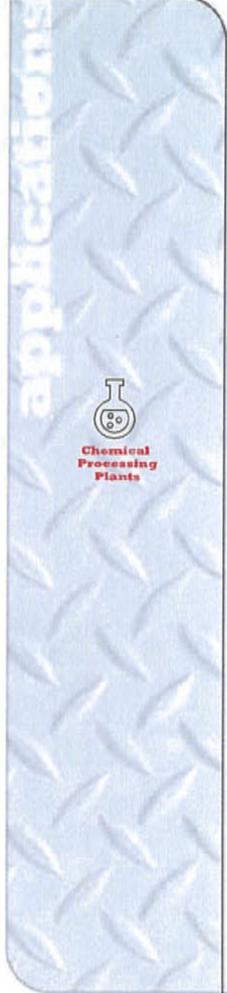
DIAMETERS: 3/32", 1/8", 5/32", 3/16"

TYPICAL MECHANICAL PROPERTIES:

Tensile Strength (psi)	107,000
Percent Elongation	47

TYPICAL CHEMICAL COMPOSITION:

C	Mn	P	S	Si	Ni
.005	.3	.013	.002	.1	59.7
Cr	Mo	Fe			
22.9	15.1	1.1			



Product headers in red indicate a bare wire electrode • Product headers in blue indicate a covered electrode