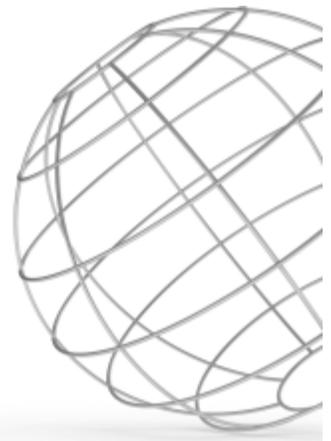




R816.10

EN: 23 12 2 L
Avesta P5



R816.10 (Avesta P5) is a Mo-alloyed grade of the 309L Mo-type. It was primarily designed as welding wire for surfacing low-alloyed steels and for joining stainless and low-alloy steels. When used for surfacing welding, the composition obtained is more or less equal to that of Type 316. This type of alloy may be sensitive to sigma-phase and embrittlement in temp. range 550-950°C (1020-1740°F).

CHEMICAL COMPOSITION (Nominal) %

C	Si	Mn	Cr	Ni	Mo	N		
<0.015	0.35	1.50	21.5	15.0	2.7	0.060		

PRE: 31 (PRE = Cr + 3.1 x Mo + 25 x N)

Comments: Ferrite: 11 FN DeLong / 9 FN WRC-92

THERMAL TREATMENT

Annealing temperature	1040-1100 °C
	1900-2010 °F

MAX. OPERATING TEMPERATURE

Operating temp. in air	°C
	°F
Scaling temp. in air	950 °C
	1740 °F

TYPICAL MECHANICAL PROPERTIES

Condition: Annealed

Proof strength	Rp0.2	min. 200 N / mm ²
Tensile strength	Rm	500-600 N / mm ²
Elongation	A10	min. 40 %

DEFORMATION GRAPH

