



8126 Mallory Court • Chanhassen, MN 55317 • (952) 368-9040 • Fax (952) 368-9041

COMPARISON OF PROPERTIES BETWEEN FWM-1058®, 35N-LT® & L605

Alloy	FWM-1058®	35N-LT®	L-605
Aka (Also Known As)	Elgiloy, Conichrome®, Phynox	MP35-N®	Haynes 25, Vitallium
ASTM Specification	F-1058	F-562	F-90
ISO Specification	ISO 5832-7	ISO 5832-6	ISO 5832-5
UNS	R30003	R30035	R30605

Element (Average Chemistry Wt % unless stated)

Carbon	0.061	0.010	0.10
Manganese	1.97	0.06	1.5
Silicon	0.478	0.03	0.4
Phosphorus	0.005	0.002	Detection Limits
Sulfur	0.0015	0.001	Detection Limits
Cobalt	39.8	Balance (~34.5)	Balance (~51)
Chromium	19.9	20.58	20
Nickel	15.4	34.82	10
Molybdenum	7.1	9.51	Detection Limits
Titanium	Detection Limits	35N-LT® <= .01 MP35-N® ~0.43	Detection Limits
Tungsten	Detection Limits	Detection Limits	15
Beryllium	0.0002	Detection Limits	Detection Limits
Iron	Balance (~15.3)	0.52	3.0 Max
Boron	Detection Limits	0.010	Detection Limits

Physical Properties

Density:	0.300 lbs / in ³	0.304 lbs / in ³	0.333 lbs / in ³
Modulus of Elasticity:	29.0 x 10 ⁶ psi	33.76 – 34.05 psi x 10 ⁶ psi	35.3 psi x 10 ⁶ psi
Electrical Resistivity (RT):	996 μohms-mm	1033 μohms-mm	886 μohms-mm
Thermal Conductivity:	12.5 W/m k (0-100°C)	11.2 W/m k (0-100°C)	12.7 W/m k (0-100°C)