Alloy AERIS 1800
Technical datasheet

Chemical composition

Alloy	Ni+Co	C	Cu	Fe	Mg	Mn	S	Si	Ti
AERIS 1800 (Ni99,6)	99,6	0,08	0,15	0,25	0,15	0,35	0,005	0,15	0,10
AERIS 1805 (Ni99,6)	99,6	0,02	0,15	0,25	0,15	0,35	0,005	0,15	0,10
AERIS 1810 (Ni99,2)	99,2	0,10	0,25	0,40	0,15	0,35	0,005	0,25	0,10
AERIS 1815 (Ni99)	99,0	0,02	0,25	0,40	0,15	0,35	0,005	0,25	0,10

Form of supply: strips, wire, bars

	Strips	Wire	Bars
Advantages of the material	- Heat resistance - High electrical resistance	- High mechanical strength - Improved high-temperature strength and heat resistance - Good corrosion resistance in hot concentrated solutions of alkalis and acids - Easy weldability	- High corrosion resistance in any aggressive environment - Excellent strength - Good plasticity - Easily processed in the hot and cold condition
Application	-As an additional layer on the thermal bimetals to achieve specific electrical resistance -As the pole tips on batteries and accumulators -As a pressed parts for the automobile industry (for example, the light guide damper on car headlights) -As electrolytic anodes in galvanizing plant -As pins for steam irons -As transistors' tips	- Lamps - Optical equipment - Spark plugs - Core for coated electrodes as welding wire	- Special vacuum engineering
Branches	- Application - Mechanical engineering - Electrical engineering - Military branches - Aerospace	- Electronic industry - Electrical engineering - Soldering glass - Cryogenics - Optical equipment - Automotive industry - Medical equipment	- Mechanical engineering - Precision mechanics