

Brand name | Monel® Alloy R-405

Trade name | Alloy R-405

Standards	UNS	Alloy
	N04405	R-405

Description | Alloy R-405 is a nickel-copper alloy + extra "S" and is based on Alloy 400.

Special properties | Due to the sulphur content the machinability is very good.

Chemical Composition	C %	Si ≤ %	Mn ≤ %	S ≤ %	Ni %
	≤ 0.30	0.50	2.00	0.025-0.060	≥ 63.0
	Cu %				
	28.0-34.0				

Mechanical Properties 20°C	Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
	140	300	≥ 690	40-30	180

Physical Properties 20°C	Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
	8.8	427	22	0.511

Application | Machined parts for the chemical industry

Available forms for / ALLOY R-405	Bars	Finished part (drawing)
		