

MATERIAL NUMBER 1.5637 · CLASS 1.5

1501-503-690

Material no. 1.5637

also listed as 10Ni14

Chemical composition, mechanical and physical property values, and 31 standard designations from 10 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	31 in 10 regions	8 on file

Chemical composition

Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 95.4 % ● Ni — 3.5 % ● Mn — 0.6 % ● Si — 0.4 % ● Traces & impurities · 0.2 %

Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: Cr, Mo.

Mechanical properties

5 values across 1 conditions

NORMALIZED	REH N/mm ²	RM N/mm ²	A %
≤ 30	355	–	–
30 – 50	345	–	–
50 – 80	335	–	–
≤ 80	–	490–640	20–22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

31 designations · 6 documented as identical

United States9		Japan4	
K31718	This grade's own nameuns	G3127 gr. SL3N255	jis
K31918	This grade's own nameuns	G3127 gr. SL3N440	jis
K32018	This grade's own nameuns	G3127 gr. SL5N590	jis
K32025	This grade's own nameuns	G3464 gr. STBL450	jis
K41583	uns		
A350-LF3	aisi-sae	United Kingdom	3
A 333 Grade 3	astm	1501-503-690	bs
A 350 Grade LF3	astm	BS1501 Gr 503	bs
A 420 Grade WPL3	astm	BS3603 gr. 503LT	bs
Europe4		Spain2	
1.5637	din-en	A-152	une
10Ni14	This grade's own namedin-en	F.152	une
12Ni14	This grade's own namedin-en		
X12Ni14	din-en	China	2
		07Ni5DR	gb
		08Ni3DR	gb
France4		International1	
12N14	afnor	X9Ni5	iso
12NJ14	afnor		
3.5Ni355	afnor		
Z10N05	afnor	Czechia	1
		16329VN	csn
		Hungary	1
		AH80	msz

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about 1501-503-690

Quotation, availability, mill certificate or a technical question — directly on the material page.

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ISSUED

Aug 20, 2026