

3M695P

also listed as 09KH14N19V2BR

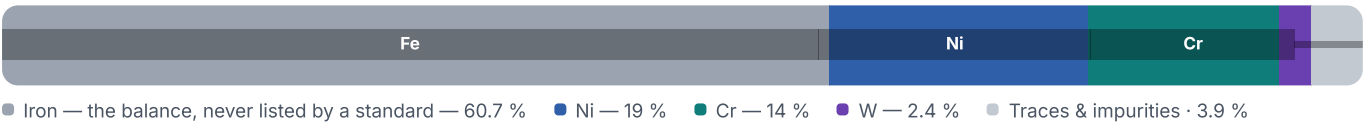
Chemical composition, mechanical and physical property values, and 4 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
4 in 1 regions	11 on file

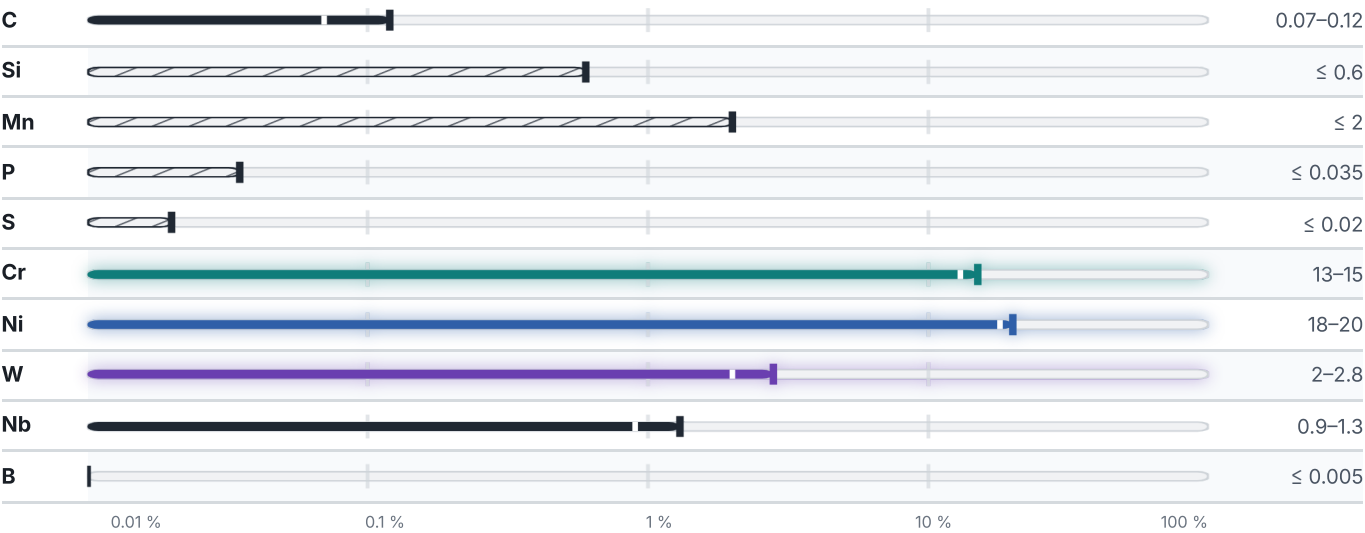
Chemical composition

Mass fraction in %

What this alloy is



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: Mo.

Mechanical properties

9 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	
Bar, GOST 5949-75	510	215	35	50	

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Blank for pipe	500	220	38	50	1400

Physical properties

1 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	RHO_EL nΩ·m
20	8.1	207	–	–	816
100	8.07	–	15.9	13.7	873
200	8.03	–	16.5	16.2	934
300	7.98	–	17.2	18.6	988
400	7.94	–	16.6	20.5	1036
500	7.89	–	18	22.6	1078
600	7.85	158	18.3	24.4	1114
700	7.8	151	18.6	–	1115
800	7.75	–	18.7	26.4	1172
900	–	–	19	28	1198

Technological properties

PROPERTY	VALUE	UNIT
Weldability	hard weldability.	

Designations across standards

4 designations · 1 documented as identical

Russia / CIS	4
09KH14N19V2BR This grade's own name	gost
09X14H19B2BP	gost
1X14H18B2BP	gost
ЭИ695P	gost

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 3M695P

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

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DATASHEET ONLINE

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MATERIAL NO.

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ISSUED

Aug 15, 2026