

12GS

also listed as 12GF-Sh

Chemical composition, mechanical and physical property values, and 13 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
13 in 1 regions	3 on file

Chemical composition	Mass fraction in %
No chemical composition is on file for this material number.	

Predicted transformation temperatures
Not enough recorded composition to predict a transformation temperature for this grade — missing: C, Mn, Si, Ni, Cr, Mo.

Mechanical properties	6 values across 2 conditions		
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
to 60	450	315	26
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
4	470	320	26

Physical properties	3 values
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Technological properties		
PROPERTY	VALUE	UNIT
Weldability	without limitations.	
Flake sensitivity	not predisposed	

PROPERTY	VALUE	UNIT
Temper brittleness	not predisposed	

Designations across standards

13 designations · 1 documented as identical

Russia / CIS	13
12GF-Sh	gost
12GS	gost
12GSB	gost
12GSBYu	gost
12KhGFL	gost
12KHN	gost
12KhNVFA	gost
12ГФ	gost
12K This grade's own name	gost
KH12VMF	gost
R12	gost
Sv-12GS	gost
AS12KHN	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 12GS

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

[Start an enquiry](#)

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	—	Aug 15, 2026