

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.
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Predicted transformation temperatures

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

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	
Flake sensitivity	not predisposed	
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 12GF-Sh

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