Cold Work Tool Steel D2 (1.2379 / SKD11)

Designations: AISI D2 | 1.2379 | X153CrMoV12 | Cr12Mo1V1 | SKD11

Applicable standards: ASTM A681, EN ISO 4957

Product Description

Ochnology is a manufacturer and supplier of D2 tool steel, also sold as 1.2379, X153CrMoV12, Cr12Mo1V1 and SKD11, in round and flat bar. A high-carbon, high-chromium steel (1.40–1.60% C, 11–13% Cr), it has excellent wear resistance and is supplied annealed to about 255 HB max. After hardening it reaches 58–62 HRC. D2 is used for blanking and punching dies, thread-rolling dies, shear blades, slitter knives and cold forming tools.

Chemical Composition (% by weight)

Element	D2 (ASTM A681)	1.2379 (EN ISO 4957)
Carbon (C)	1.40–1.60	1.50–1.60
Silicon (Si)	0.10–0.60	0.10–0.60
Manganese (Mn)	0.10–0.60	0.15–0.45
Chromium (Cr)	11.00–13.00	11.00–12.00
Molybdenum (Mo)	0.70–1.20	0.60–0.80
Vanadium (V)	0.50–1.10	0.90–1.10
Phosphorus (P)	≤ 0.030	≤ 0.030
Sulphur (S)	≤ 0.030	≤ 0.030

Mechanical and Physical Properties

Property	D2 (ASTM A681)	1.2379 (EN ISO 4957)
Hardness, annealed	≤ 255 HB	≤ 255 HB
Working hardness after heat treatment	58–62 HRC	58–62 HRC

Supply Details

Item	Detail
Density	7.70 g/cm^3
Forms	Round bar, flat bar, plate
Delivery condition	Soft annealed; hardened and tempered on request
Certification	Mill test certificate (EN 10204 3.1) and third-party inspection available on request

Typical Applications

- Blanking and punching dies
- Thread-rolling dies
- Shear blades and slitter knives
- Cold forming and trimming tools

Ordering Information

To request a quotation, send the grade and standard, form, size or thickness, quantity, delivery condition, destination port and required certificates to info@ochnology.com or bd@ochnology.com. Typical values apply to the stated standards; actual values are certified on the mill test certificate for each lot.

Issue date: 31 October 2026