High-Speed Steel M2 (1.3343 / SKH51)

Designations: AISI M2 | HS6-5-2C | 1.3343 | SKH51

Applicable standards: ASTM A600, EN ISO 4957

Product Description

Ochnology is a manufacturer and supplier of M2 high-speed steel, also sold as HS6-5-2C, 1.3343 and SKH51, in round bars and flats. Typical chemistry is about 0.80–0.90% C, 5.5–6.75% W, 4.5–5.5% Mo, 3.75–4.5% Cr and 1.75–2.2% V. After heat treatment it reaches 62–65 HRC with good red hardness. M2 is used for twist drills, taps, reamers, milling cutters, broaches and punches.

Chemical Composition (% by weight)

Element	M2 (ASTM A600)	1.3343 (EN ISO 4957)
Carbon (C)	0.78–0.88	0.86–0.94
Silicon (Si)	0.20–0.45	≤ 0.45
Manganese (Mn)	0.15–0.40	≤ 0.40
Chromium (Cr)	3.75–4.50	3.80–4.50
Tungsten (W)	5.50–6.75	5.90–6.70
Molybdenum (Mo)	4.50–5.50	4.70–5.20
Vanadium (V)	1.75–2.20	1.70–2.10
Phosphorus (P)	≤ 0.030	≤ 0.030
Sulphur (S)	≤ 0.030	≤ 0.030

Mechanical and Physical Properties

Property	M2 (ASTM A600)	1.3343 (EN ISO 4957)
Hardness, annealed	≤ 255 HB	≤ 262 HB
Hardness after heat treatment	62–65 HRC	62–65 HRC

Supply Details

Item	Detail
Density	8.16 g/cm^3
Forms	Round bar, flat bar
Delivery condition	Soft annealed
Certification	Mill test certificate (EN 10204 3.1) and third-party inspection available on request

Typical Applications

- Twist drills and taps
- Reamers and milling cutters
- Broaches and punches
- General-purpose cutting 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.

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