CHROMIUM-MOLYBDENUM ALLOY STRUCTURAL STEEL

34CrMo4 1.7220 / AISI 4135

Chromium-molybdenum alloy structural steel

0.30–0.37 C	**1.7220**	**Ø600 mm**	**EN 10204 3.1**
EN 10083-3	Werkstoff number	Max forged bar	Every lot

GRADE AND STANDARDS

Item	Detail

CHEMICAL COMPOSITION (% BY MASS)

C	Si	Mn	P	S	Cr	Mo
0.30–0.37	≤0.40	0.60–0.90	≤0.025	≤0.035	0.90–1.20	0.15–0.30

MECHANICAL PROPERTIES

Condition	Tensile MPa	0.2 % proof MPa	Elongation %	Hardness
Annealed	≤650	≥380	≥20	≤217 HB
Q+T, 24–28 HRC	800–950	≥650	≥15	250–280 HB
Q+T, 30 HRC	900–1000	≥750	≥13	285–320 HB

SUPPLY RANGE

Form	Size range	Condition
Rolled round bar	Ø16–200 mm	Annealed / Q+T
Forged round bar	Ø200–600 mm	Annealed / Q+T
Seamless tube stock	Ø60–350 mm	Annealed
Plate	Thickness 6–100 mm	Normalised / Q+T

INSPECTION AND CERTIFICATION

- EN 10204 3.1 with chemistry and mechanicals
- Carbon equivalent calculated and reported for welding qualification
- Hardenability curve on request
- Ultrasonic inspection to SEP 1921 for pressure parts
- Grain size to ASTM E112

ORDERING INFORMATION

- Grade and standard
- Form and size - thickness x width x length, or diameter and cut length
- Quantity in pieces or kilograms
- Delivery condition and hardness window
- Certificate and inspection requirements

Hunan Fushun Metal Co., Ltd.
No. 1914-1919, Building C2, Yongsheng Commercial Plaza,
No. 222 Labor East Road, Changsha, Hunan, China
T +86-731-89903933 | M +86 178 7358 1838 (WhatsApp)
info@fushunspecialsteel.com | www.fushunspecialsteel.com

EN 10204 3.1 mill certificate with every shipment
Chemistry · mechanical properties · test results · heat number

Hardness map and ultrasonic inspection on request.
Values are typical for the grade; the certificate of the actual heat governs.