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Technical information

Technical specification for raw material raise bore rods: 8", 10", 11 1/4"

Material: AISI 4145mod, Mechanical Properties

Property	Symbol	Dimension	Raw material diameter 200 mm to 350 mm
Yield strength	R _{p0.2}	N/mm ²	≥= 930
Tensile strength	R _m	N/mm ²	1010-1150
Elongation after fracture (Lo 0 4x do)	A4	%	≥= 15
Reduction of area	Z	%	≥= 45
Notch impact strength Charpy V-Notch	A	J	≥= 54
Hardness on specified testing diameter		HB	295-342
Hardness on the circumferential surf.		HB	≥= 295

Technical specification for high strength raw material raise bore rods: 8", 10", 11 1/4", 12 7/8", 13 1/8"

High strength material: AISI 4330mod, Mechanical Properties

Property	Symbol	Dimension	Raw material diameter 200 mm to 350 mm
Yield strength	R _{p0.2}	N/mm ²	≥= 1050
Tensile strength	R _m	N/mm ²	1050-1230
Elongation after fracture (Lo 0 4x do)	A4	%	≥= 15
Reduction of area	Z	%	≥= 45
Notch impact strength Charpy V-Notch	A	J	≥= 54
Hardness on specified testing diameter		HB	305-360
Hardness on the circumferential surf.		HB	≥= 305