

Project Name: Hot rolled round bar

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Closing date: 20 December 2021

1) Technical Specs and Bill of Quantity

Item	Description	Unit	Quantity
	Weldable hot round smooth rolled merchant bars as per below standards <ul style="list-style-type: none"> NF EN 10025 (March 2005) - Nuance E 28-2 (or St.44-2) NF A 35-503 (June 2008) - Class 3 <p><u>Chemical analysis :</u></p> <ul style="list-style-type: none"> C 0.24% max S 0.050% max P 0.040% max Cu 0.40% max Mn 0.70% max Si 0.15% ≤ Si ≤ 0.25% (Si + 2.5 P) ≤ 0.325% C eq 0.40% max With Carbon equivalent = $C + Mn / 6 + (Cr + Mo + V) / 5 + (Ni + Cu) / 15$ <p><u>Mechanical characteristics :</u></p> <ul style="list-style-type: none"> Guaranteed minimum yield strength of 275 N / mm² Stress rupture strength: 410-560 N / mm² Minimum elongation at break: 23% Bending test at 180 ° (for diameters ≤ 30 mm): ØRM > 16mm → core Ø = Ø 2 x RM <p><u>Geometric feature:</u></p> <p>Diameter tolerance:</p> <ul style="list-style-type: none"> Diameter 8 mm: ± 0.4 mm Diameter 25mm: ± 0.5 mm Diameter 30 mm: ± 0.6mm 		

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	<ul style="list-style-type: none"> Diameter 40-50mm: ± 0.8 mm <p>Tolerance on length:</p> <ul style="list-style-type: none"> lengths: $-0 / + 100$ mm ,this tolerance is mandatory for all sections and all lengths. No short length is accepted The cut surfaces should be clean <p>The product must be free of any geometrical defects (deformation rods or bundles, local or over the entire length, ends of hooked bars, whiskers, payments and roundness) may carry any damages during use for obtaining a welded construction of high quality.</p> <p><u>Packing :</u></p> <ul style="list-style-type: none"> <u>Weight per burden:</u> $2T \pm 10\%$ <u>Number of links:</u> Nine (09) nine links minimum for all lengths (including 2 places approximately 200 mm from the exrremities) <u>Number of labels per bundle:</u> 1 per bundle <u>Links for handling loads (lifting hooks) :</u> two (2) 10 mm diameter wire ties approximately two meters from the ends 		
1	Diameter: 8 mm, length: 12 m	MT	400
2	Diameter: 25 mm, length: 12 m	MT	400
3	Diameter: 25 mm, length: 15 m	MT	200
4	Diameter: 30 mm, length: 12 m	MT	200
5	Diameter: 30 mm, length: 13 m	MT	100
6	Diameter: 30 mm, length: 15 m	MT	200
7	Diameter: 40 mm, length: 13 m	MT	600
8	Diameter: 40 mm, length: 15 m	MT	200
9	Diameter: 50 mm, length: 13 m	MT	100
10	Diameter: 50 mm, length: 15 m	MT	100
Total			2,500