



الجزائرية القطرية للصلب
ALGERIAN QATARI STEEL

STEEL

Chemical Composition

Element	C%	Si%	Mn%	P%	S%	Cu%	Ni%	Cr%	Mo%	V%	Pb%	N-PPM	C-eq	Liquid us Temp
Min	0.19	0,15	0,60	*	*	*	*	*	*	*	*	*	*	1518 °C
Max	0.22	0,30	0,80	0.045	0,030	0,20	0,15	0,25	0,10	0,001	0,05	120	0,45	
Aim	0.20	0.20	0.70	<0.025	<0.020	0.10	0.05	0.10	0.01	0.0005	<0.005	<90	0.35	

Trace Elements: Al=0.005% Max, As=0.003% Max

General notes

- Grade B500WR
- Client Reference: General
- CEQ= $C + Mn/6 + (Cr + V + Mo)/5 + (Cu + Ni)/15$
- Designed For Rolling High Adherence Round Steel concrete.

Billet Macrography:

- Free from Internal defects.

Billet surface

- Free from surface defects

Geometric Characteristics:

- Length: 12mtr ±30mm
- Rhomboidity: D1-D2= 8 mm Max
- Section = 150mm*150mm
- Twist: ≤0.8°/m (8°max on 12 mtr billet length)
- Comber: ≤ 5mm/m
- Side dimensions: +/ -2.0%
- Face Bulging/Depressions for peritectics and rimming steel substituted: ≤2.5%



Manufacturing Process

Electric Arc furnace	Ladle	Ladle furnace	Continuous casting
Free from slag during tapping	Pre-heating a T>1000°C	Middle of the purge Argon/nitrogen: temperature :20-40°C	Open casting with ladle to Tundish shrouding

All billets are identifiable using permanent indicating

1) Heat number. 2) grade. 3) billet number for each heat.

The Billet product by AQS meets the requirements NA8634/2015 & ISO 6935-2/2015.