

+ Orange Bond (AWS Spec. E - 6013)

C %	Mn %	Si %	S %	P %	Cr %	Ni %	Mo %	Cu %	Fe %	Y.S N./mm <sup>2</sup>	UTS N./mm <sup>2</sup>	Elongation % L = 4D	Impact / Joules	Testing Temp
0.07	0.45	0.35	0.03	0.03	●	●	●	●	●	360-480	460-560	25-30	50-90	0°C

Approved by:

BHEL, Lloyds - Grade 2, IRS - Grade 2, Bureau Veritas (B.V.) - Grade 2, CIDCO, BIS

Application:

Shipbuilding, Wagon building, Steel Vessels, Bridges, Automobile bodies, General Fabrication.

---

+ Orange - S (AWS Spec. E - 6013)

C %	Mn %	Si %	S %	P %	Cr %	Ni %	Mo %	Cu %	Fe %	Y.S N./mm <sup>2</sup>	UTS N./mm <sup>2</sup>	Elongation % L = 4D	Impact / Joules	Testing Temp
0.065	0.50	0.35	0.03	0.03	●	●	●	●	●	360-480	460-560	25-30	50-90	0°C

Approved by:

BHEL, Lloyds - Grade 2, IRS - Grade 2, Bureau Veritas (B.V.) - Grade 2, Det Norske Veritas (DNV), M.N. Dastur & Co, Indian Boiler Rules (I.B.R.), Tata Projects, Project Development India Ltd (P.D.I.L), CIDCO, BIS

Application:

Medium High Tensile Steels, Ships, Pressure Vessels, Pipelines, Storage tanks, Boilers, Automobile bodies, Railway wagons & general fabrication

---

+ Orange - S S (AWS Spec. E - 6013)

C %	Mn %	Si %	S %	P %	Cr %	Ni %	Mo %	Cu %	Fe %	Y.S N./mm <sup>2</sup>	UTS N./mm <sup>2</sup>	Elongation % L = 4D	Impact / Joules	Testing Temp
0.065	0.50	0.35	0.03	0.03	●	●	●	●	●	340-480	460-560	25-30	50-90	0°C

Approved by:

Lloyds - Grade 2Y, IRS - Grade 2, Bureau Veritas (B.V.) - Grade 2, Det Norske Veritas (DNV), Indian Boiler Rules (I.B.R.), Tata Projects, Project Development India Ltd (P.D.I.L), CIDCO, BIS

Application:

Welding Thin Sheet metal grades, boilers, bridges, ships, coaches, wagon building, Locomotive fabrication, auto components.