

VL Grade A – Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
Carbon (C)	≤ 0.21%
Manganese (Mn)	0.5 – 1.6%
Silicon (Si)	≤ 0.50%
Phosphorus (P)	≤ 0.035%
Sulphur (S)	≤ 0.035%
Yield Strength	≥ 235 MPa
Tensile Strength	400 – 520 MPa
Elongation	≥ 22 %
Impact Toughness	34 J @ 0 °C (typical)

2. Equivalent / Alternative Grades

Standard	Grade	YS	TS
ASTM A131	A	235	400-520
EN 10025-2	S235JR	235	360-510

3. Common Applications

- Ship hull plating
- Offshore structures
- Marine fabrications

4. Standard Conformance

Lloyd's Register VL Gr A / ABS Grade A – basic shipbuilding structural steel.

5. Disclaimer

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