

**Fine-grain structural steels, normalised rolled steel ASTM-SAE A537CL1/
A633Gr.C,D steel plate**

A537CL1/A633Gr.C,D steel plate, under ASTM-SAE standard A537CL1/A633Gr.C,D steel plate, under ASTM-SAE standard, we can regard A537CL1/A633Gr.C,D steel plate as Fine-grain structural steels, normalised rolled steel.

A537CL1/A633Gr.C,D steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, A537CL1/A633Gr.C,D steel plate is under ASTM-SAE standard equivalent to DIN: TStE355, EN: S355NL, which with a minimum impact energy of 20J at temperatures not lower than -20 degree and the tensile strength of A537CL1/A633Gr.C,D is 4800 to 620 MPa.

| Grade | Thickness (mm) | Chemical composition %. | | | | | | | | |
|----------|----------------|-------------------------|-----------|-----------|--------|--------|---------|---------|---------|---------|
| | | C. max | Si | Mn | P. max | S. max | Cu. max | Ni. max | Cr. max | Mo. max |
| A537CL 1 | 6.00-38.10 | 0.24 | 0.15-0.50 | 0.70-1.35 | 0.035 | 0.035 | 0.35 | 0.25 | 0.25 | 0.08 |
| | 38.11-50.80 | | | 1.00-1.60 | | | | | | |

Mechanical properties of A537Class 1

| Grade | Tensile Test | | | |
|--------------|---|---|-------------------|-------|
| | Yield Strength Ksi(N/mm ²) | Tensile Strength Ksi(N/mm ²) | Elongation | |
| | | | Test piece in(mm) | % min |
| A537 Class 1 | 50(345)min | 70-90 (485-620) | GL=8(200) | 18 |
| | | | GL=2(50) | 22 |

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