

NF A49-242-85 STEEL TUBES LONGITUDINALLY PRESSURE WELDED TUBES D 168.3mm Max IN NOT ALLOYED AND LOW ALLOYED AT MEDIUM ELEVATED TEMPERATURES

1. Chemical Composition

| Grade | Mfg. Process | Chemical Composition (%) | | | | | | | | |
|----------|--------------|--------------------------|-----------|-----------|----------|----------|---------|-----------|----|---------------------------|
| | | C | Si | Mn | P | S | Ni | Cr | Mo | Others |
| TS37C | W | 0.15Max | 0.06~0.30 | 0.35~0.75 | 0.035Max | 0.025Max | - | - | - | Cu 0.25Max Sn 0.030Max |
| TS42C | W | 0.18Max | 0.08~0.35 | 0.45~1.00 | 0.035Max | 0.025Max | - | - | - | Cu 0.25Max Sn 0.035Max |
| TSE24W3 | W | 0.13Max | 0.10~0.40 | 0.20~0.60 | 0.040Max | 0.035Max | 0.65Max | 0.40~0.80 | - | - |
| TSE36WB3 | W | 0.19Max | 0.50Max | 0.50~1.60 | 0.045Max | 0.045Max | 0.65Max | 0.40~0.80 | - | - |

2. Mechanical Properties

| Grade | Tensile Test MPa or N/mm ² | | Remarks (Similar to JIS) |
|----------|---------------------------------------|------------------|-----------------------------|
| | Min Yield point | Tensile Strength | |
| TS37C | 235 | 360~460 | (STPG370) |
| TS42C | 255 | 410~510 | (STPG420) |
| TSE24W3 | 255 | 380~450 | - |
| TSE36WB3 | 330 | 450~520 | - |