# BOILER QUALITY PLATES

| Specifications | Chemical | | | | | | Mechanical | | | | Mpa, min | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C Max | Mn Max | Si Max | S Max | P Max | CE | Tensile Min | Yield Min | % EL 50 GL | % EL 200 GL | Bend | Impact |
| ASTM-A 516 | | | | | | | | | | | | |
| Gr - 60 | 0.23 | 0.85/1.2 | 0.15/0.40 | 0.04 | 0.035 | 0.42 | 415/550 | 220 | 25 | 21 | 1.5T | -46°C / 18J |
| Gr - 70 | 0.28 | 0.85/1.2 | 0.15/0.40 | 0.04 | 0.035 | 0.43 | 485/620 | 260 | 21 | 17 | 2T | -46°C / 20J |
| IS 2041 | | | | | | | | | | | | |
| R 220 | 0.21 | 0.60-1.5 | 0.15-0.35 | 0.035 | 0.035 | — | 415-540 | 220 | 21 | — | 3T | -20°C / 27J |
| R 260 | 0.25 | 0.85-1.5 | 0.15-0.35 | 0.035 | 0.035 | — | 490-620 | 260 | 21 | — | 3T | -20°C / 27J |
| R 355 | 0.18 | 1.10-1.7 | 0.50 Max | 0.015 | 0.025 | — | 490-640 | 355-315 | 21 | — | — | -40°C / 40J |
| H 235 | 0.16 | 0.60-1.2 | 0.35 Max | 0.015 | 0.025 | 0.025 | 360-480 | 235-200 | 24 | — | — | — |
| H 265 | 0.20 | 0.80-1.4 | 0.40 Max | 0.015 | 0.025 | 0.025 | 410-530 | 265-215 | 22 | — | — | — |
| H 295 | 0.20 | 0.90-1.5 | 0.40 Max | 0.015 | 0.025 | 0.025 | 460-580 | 295-260 | 21 | — | 3T | -20°C / 27J |
| H 355 | 0.22 | 1.10-1.7 | 0.60 Max | 0.015 | 0.025 | 0.025 | 510-650 | 355-315 | 20 | — | — | — |
| ASTM-A 515 | | | | | | | | | | | | |
| Gr - 60 | 0.22 | 0.90 | 0.15/0.40 | 0.035 | 0.035 | — | 415/550 | 220 | 25 | 21 | 1.5T | — |
| Gr - 70 | 0.31 | 1.20 | 0.15/0.40 | 0.035 | 0.035 | — | 485/620 | 260 | 21 | 17 | 2T | — |
| IS 2002 Gr - 1 & DIN 17155 Gr - H1 | 0.18 | 0.50/1.20 | 0.15/0.35 | 0.04 | 0.035 | 0.44 | 360/480 | 235 | 24 | — | 2T | — |
| IS 2002 Gr - 2 & DIN 17155 Gr - H2 | 0.20 | 0.50/1.20 | 0.15/0.35 | 0.04 | 0.035 | 0.44 | 410/530 | 265 | 22 | — | 2T | — |
| IS 2002 Gr - 3 & DIN 17155 Gr - H3 | 0.22 | 0.50/1.20 | 0.15/0.35 | 0.04 | 0.035 | 0.44 | 460/580 | 290 | 21 | — | 3T | — |
| ASTM-A 537 CL - 1 | 0.24 | 0.7/1.6 | 0.15/0.50 | 0.035 | 0.035 | 0.45 | 485/620 | 345 | 22 | 18 | 2T | -30°C / 20J |