Table 1A

Section I; Section III, Division 1, Classes 2 and 3;\* Section VIII, Division 1; and Section XII Maximum Allowable Stress Values, *S*, for Ferrous Materials

(\*See Maximum Temperature Limits for Restrictions on Class)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Line No.** | **Nominal Composition** | **Product Form** | **Spec. No.** | **Type/Grade** | **Alloy Desig./ UNS**  **No.** | **Class/**  **Condition/ Temper** | **Size/**  **Thickness, mm** | **P-No.** | **Group No.** |
| 1 | Carbon steel | Sheet | SA–1008 | CS–A | … | … | … | 1 | 1 |
| 2 | Carbon steel | Sheet | SA–1008 | CS–B | … | … | … | 1 | 1 |
| 3 | Carbon steel | Bar | SA–675 | 45 | … | … | … | 1 | 1 |
| 4 | Carbon steel | Wld. pipe | SA–134 | A283A | … | … | … | 1 | 1 |
| (**23**) | 5 | … | … | … | … | … | … | … | … | … |
|  | 6 | Carbon steel | Plate | SA–285 | A | K01700 | … | … | 1 | 1 |
|  | 7 | Carbon steel | Wld. pipe | SA–672 | A45 | K01700 | … | … | 1 | 1 |
|  | 8 | Carbon steel | Sheet | SA–414 | A | K01501 | … | … | 1 | 1 |
|  | 9 | Carbon steel | Wld. tube | SA–178 | A | K01200 | … | … | 1 | 1 |
|  | 10 | Carbon steel | Wld. tube | SA–178 | A | K01200 | … | … | 1 | 1 |
|  | 11 | Carbon steel | Smls. tube | SA–179 | … | K01200 | … | … | 1 | 1 |
|  | 12 | Carbon steel | Smls. tube | SA–192 | … | K01201 | … | … | 1 | 1 |
|  | 13 | Carbon steel | Wld. tube | SA–214 | … | K01807 | … | … | 1 | 1 |
|  | 14 | Carbon steel | Smls. tube | SA–556 | A2 | K01807 | … | … | 1 | 1 |
|  | 15 | Carbon steel | Wld. tube | SA–557 | A2 | K01807 | … | … | 1 | 1 |
|  | 16 | Carbon steel | Wld. pipe | SA–53 | E/A | K02504 | … | … | 1 | 1 |
|  | 17 | Carbon steel | Wld. pipe | SA–53 | E/A | K02504 | … | … | 1 | 1 |
|  | 18 | Carbon steel | Wld. pipe | SA–53 | E/A | K02504 | … | … | 1 | 1 |
|  | 19 | Carbon steel | Wld. pipe | SA–53 | F/A | … | … | … | 1 | 1 |
|  | 20 | Carbon steel | Smls. pipe | SA–53 | S/A | K02504 | … | … | 1 | 1 |
|  | 21 | Carbon steel | Smls. pipe | SA–53 | S/A | K02504 | … | … | 1 | 1 |
|  | 22 | Carbon steel | Smls. pipe | SA–106 | A | K02501 | … | … | 1 | 1 |
|  | 23 | Carbon steel | Wld. pipe | SA–135 | A | … | … | … | 1 | 1 |
|  | 24 | Carbon steel | Forged pipe | SA–369 | FPA | K02501 | … | … | 1 | 1 |
|  | 25 | Carbon steel | Wld. pipe | SA–587 | … | K11500 | … | … | 1 | 1 |
|  | 26 | Carbon steel | Wld. pipe | SA–587 | … | K11500 | … | … | 1 | 1 |
|  | 27 | Carbon steel | Bar | SA–675 | 50 | … | … | … | 1 | 1 |
|  | 28 | Carbon steel | Bar | SA–675 | 50 | … | … | … | 1 | 1 |
|  | 29 | Carbon steel | Wld. pipe | SA–134 | A283B | … | … | … | 1 | 1 |
| (**23**) | 30 | … | … | … | … | … | … | … | … | … |
|  | 31 | Carbon steel | Plate | SA–285 | B | K02200 | … | … | 1 | 1 |
|  | 32 | Carbon steel | Plate | SA–285 | B | K02200 | … | … | 1 | 1 |
|  | 33 | Carbon steel | Wld. pipe | SA–672 | A50 | K02200 | … | … | 1 | 1 |
|  | 34 | Carbon steel | Sheet | SA–414 | B | K02201 | … | … | 1 | 1 |
|  | 35 | Carbon steel | Plate | SA/EN 10028–3 | P275NH | … | … | 150 < *t* ≤ 250 | 1 | 1 |
|  | 36 | Carbon steel | Plate | SA/EN 10028–2 | P235GH | … | … | ≤60 | 1 | 1 |
|  | 37 | Carbon steel | Smls. tube | SA/EN 10216–2 | P235GH | … | … | 40 < *t* ≤ 60 | 1 | 1 |
|  | 38 | Carbon steel | Plate | SA/EN 10028–3 | P275NH | … | … | 100 < *t* ≤ 150 | 1 | 1 |
|  | 39 | Carbon steel | Smls. tube | SA/EN 10216–2 | P235GH | … | … | 16 < *t* ≤ 40 | 1 | 1 |
|  | 40 | Carbon steel | Smls. tube | SA/EN 10216–2 | P235GH | … | … | *t* ≤ 16 | 1 | 1 |
|  | 41 | Carbon steel | Sheet, strip | SA–1011 | 36 | SS | Type 1 | *t* ≤ 6 | … | … |
|  | 42 | Carbon steel | Plate | SA/EN 10028–3 | P275NH | … | … | 60 < *t* ≤ 100 | 1 | 1 |
|  | 43 | Carbon steel | Sheet, strip | SA–1011 | 40 | SS | … | *t* ≤ 6 | … | … |
|  | 44 | Carbon steel | Sheet, strip | SA–1011 | 45 | HSLAS | 2 | … | … | … |
|  | 45 | Carbon steel | Bar | SA–675 | 55 | … | … | … | 1 | 1 |