



| Especificação | C | Mn | Si | P | S | Ni | Cr | Mo | Cu | V | W | Fe | Co | Outros | Condição | Resistência à tração | | Limite de escoamento | | Alongamento (em 4e) | Dureza | | |
|---------------------------------------|--------------|--------------|-------------|------------|------|--------------|--------------|--------------|------------|--------------|---|--------------|------|--------|--|--------------------------|------------------------|---------------------------|---------------------|--------------------------|---------------------|-----------------------|--------------------|
| | | | | | | | | | | | | | | | | psi | MPa | psi | MPa | | | | |
| AÇOS CARBONO E AÇOS LIGA | IC 1020 | .15 .25 | .20 .60 | .20 .60 | .04 | .045 | - | - | - | - | - | - | - | - | - | Recozido | 60-70,000 | 414-483 | 40-45,000 | 276-310 | 25-40 | 80 Rb | |
| | IC 1040 | .35 .45 | .70 1.0 | .20 1.0 | .04 | .045 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | IC 1050 | .45 .55 | .70 1.0 | .20 .80 | .04 | .045 | - | - | - | - | - | - | - | - | - | - | Recozido Endurecido | 90-110,000 125-180,000 | 621-758 862-1241 | 50-65,000 100-180,000 | 345-448 690-1241 | 20-25 0-10 | 100 Rb 30-60 Rc |
| | IC 4140 | .35 .45 | .70 1.0 | .20 .80 | .04 | .04 | - | .80 1.10 | .15 .25 | - | - | - | - | - | - | - | Recozido Endurecido | 130-200,000 | 876-1394 | 100-155,000 | 690-1069 | 5-20 | 100 Rb 29-57 Rc |
| | IC 4330 | .28 .36 | .60 1.0 | .20 .80 | .04 | .04 | 1.65 2.0 | .65 1.0 | .30 .45 | - | - | - | - | - | - | - | Recozido Endurecido | 130-190,000 | 876-1310 | 100-175,000 | 690-1207 | 5-20 | 20 Rc 25-48 Rc |
| | IC 4340 | .36 .44 | .60 .90 | .20 .80 | .025 | .025 | 1.65 2.0 | .70 .90 | .20 .30 | - | - | - | - | - | - | - | Recozido Endurecido | 130-200,000 | 876-1394 | 100-180,000 | 690-1241 | 5-20 | 20 Rc 20-55 Rc |
| | IC 6150 | .45 .55 | .65 .95 | .20 .80 | .04 | .045 | - | .80 1.10 | - | - | - | - | - | - | V. 15 Min. | - | Recozido Endurecido | 140-200,000 | 965-1394 | 120-180,000 | 827-1241 | 5-10 | 100 Rb 30-60 Rc |
| | IC 8620 | .15 .25 | .65 .95 | .20 .80 | .04 | .045 | .40 .70 | .40 .70 | .15 .25 | - | - | - | - | - | - | - | Recozido Endurecido | 100-130,000 | 690-896 | 80-110,000 | 552-758 | 10-20 | 100 Rb 20-45 Rc |
| | IC 8640 | .35 .45 | .70 1.05 | .20 .80 | .04 | .04 | .40 .70 | .40 .60 | .15 .25 | - | - | - | - | - | - | - | Recozido Endurecido | 130-200,000 | 876-1394 | 100-180,000 | 690-1241 | 5-20 | 20 Rc 30-60 Rc |
| AÇOS INOXIDÁVEIS MARTENSÍTICOS | CA-15 (410) | .05 .15 | 1.00 | 1.50 | .04 | .04 | 1.00 | 11.5 14.0 | .50 | - | - | - | - | - | - | Recozido Endurecido | 95-200,000 | 655-1394 | 75-160,000 | 517-1103 | 5-12 | 100 Rb 94 Rb-45 Rc | |
| | CA-40 (420) | .20 .40 | 1.00 | 1.50 | .04 | .04 | 1.0 | 11.5 14.0 | .5 | - | - | - | - | - | - | Recozido Endurecido | 200-225,000 | 1394-1551 | 130-210,000 | 896-1448 | 0-5 | 25 Rc 40-60 Rc | |
| | IC 440C | .95 1.20 | 1.00 | 1.00 | .04 | .03 | .75 | 16.0 18.0 | .35 .75 | - | - | - | - | - | - | Recozido Endurecido | - | - | - | - | - | 35 Rc 20-55 Rc | |
| | IC 17-4 PH | .06 | .70 | .50 1.0 | .04 | .03 | 3.60 4.60 | 15.5 16.7 | - | 2.80 3.50 | - | - | - | - | .15-.40 Cb + Ta .05N | - | Recozido Endurecido | 150-190,000 | 1034-1310 | 140-160,000 | 9651103 | 6-20 | 36 Rc 34-44 Rc |
| | CF-16F (303) | .16 | 1.50 | 2.00 | .04 | - | 9.0 12.0 | 18.0 21.0 | - | - | - | - | - | - | .15-.20-35%o, 1.50 Mo or .40-.50Mo, 20-.40S | Solubilizado | 65-75,000 | 418-517 | 30-35,000 | 207-241 | 35-45 | 90 Rb | |
| CF-8 (304) | .08 | 1.50 | 2.00 | .04 | .04 | 8.0 11.0 | 18.0 21.0 | - | - | - | - | - | - | - | Solubilizado | 70-85,000 | 483-586 | 40-50,000 | 276-345 | 35-50 | 90 Rb | | |
| CK-20 (310) | .20 | 2.00 | 2.00 | .04 | .04 | 19.0 22.0 | 23.0 27.0 | - | - | - | - | - | - | - | Solubilizado | 60-75,000 | 414-517 | 30-40,000 | 207-276 | 35-45 | 90 Rb | | |
| CF-8M (316) | .08 | 1.50 | 2.00 | .04 | .04 | 9.0 12.0 | 18.0 21.0 | 2.0 3.0 | - | - | - | - | - | - | Solubilizado | 70-85,000 | 483-586 | 40-50,000 | 276-345 | 35-50 | 90 Rb | | |
| CF-3M (316L) | .03 | 1.50 | 1.50 | .04 | .04 | 9.0 13.0 | 17.0 21.0 | 2.0 3.0 | - | - | - | - | - | - | Solubilizado | 70-85,000 | 483-586 | 40-50,000 | 276-345 | 35-50 | 90 Rb | | |
| LIGAS DE COBALTO | COBALTO J | 2.2 2.7 | 1.0 | 1.0 | .03 | .03 | 2.5 | 31.0 34.0 | - | - | - | 16.0 19.0 | 3.0 | Bal. | .25B, 2.0 Total | Bruto de fusão | - | - | - | - | - | - | 55-60 Rc |
| | COBALTO 6 | .9 1.4 | 1.0 | 1.5 | - | - | 3.0 | 27.0 31.0 | 1.5 | - | - | 3.5 5.5 | 3.0 | Bal. | - | Bruto de fusão | - | - | - | - | - | - | 37-45 Rc |
| | COBALTO 12 | 1.10 1.70 | 1.00 | 1.00 | .03 | .03 | 3.00 | 28.0 32.0 | - | - | - | 7.00 9.50 | 3.00 | Bal. | - | Bruto de fusão | - | - | - | - | - | - | 44-50 Rc |
| | COBALTO 21 | .20 .30 | 1.0 | 1.0 | .04 | .04 | 1.75 3.75 | 25.0 29.0 | 5.0 6.0 | - | - | - | 3.0 | Bal. | .007B | Bruto de fusão | 95-130,000 | 655-896 | 65-95,000 | 448-655 | 8-20 | 24-32 Rc | |
| | F75 | .35 | 1.00 | 1.00 | - | - | .5 | 27.0 30.0 | 5.0 7.0 | - | - | 0.20 | .75 | Bal. | N=0,25 Máx. | B. Fusão Solubilizado | 95-110,000 | 655 min. | 70-80,000 | 450 min. | 8 min. | 25-35 Rc | |