

| 規範<br>Standard | 編號<br>Code  | 密度<br>Density<br><br>(g/cm <sup>3</sup> ) | 硬度<br>Hardness              |  | 抗拉測試<br>Tensile Properties            |  | 撞擊測試<br>Unnotched Charpy<br>Impact Energy |  | 主要化學成份 (%) Chemical Composition (%) |           |           |           |           |           |           |           |
|----------------|-------------|---|-----------------------------|--|---------------------------------------|--|---|--|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                |             |   | 宏觀硬度<br>Macro<br>(apparent) | 微觀硬度(顆粒<br>硬度)<br>Micro-indentation<br>(converted) | 極限強度<br>Ultimate<br>Strength<br>(MPa) | 降幅強度<br>Yield<br>Strength,<br>0.2% (MPa) | 撞擊能量<br>Charpy<br>Impact<br>Value (J)     | 破壞強度<br>transverse<br>Rupture<br>Strength<br>(MPa) | 鐵<br>(Fe)                           | 銅<br>(Cu) | 碳<br>(C)  | 鎳<br>(Ni) | 鉬<br>(Mo) | 錳<br>(Mn) | 鉻<br>(Cr) | 錫<br>(Sn) |
|                |             |   |                             |  |                                       |  |   |  |                                     |           |           |           |           |           |           |           |
| F-0000         | 6.1 - 6.7   | HRF 40-60                                 | N/D                         | 120-170  | 90-120                                | 4-8                                      | 250-340                                   | Bal.   |                                     | 0-0.3     |           |           |           |           |           |           |
| F-0005         | 6.1 - 6.9   | HRB 25-55                                 | N/D                         | 170-260  | 120-190                               | 4-7                                      | 330-520                                   | Bal.   |                                     | 0.3-0.6   |           |           |           |           |           |           |
| F-0005HT       | 6.6 - 7.0   | HRC20-25                                  | HRC58                       | 410-550  |                                       | 4-5                                      | 720-970                                   | Bal.   |                                     | 0.3-0.6   |           |           |           |           |           |           |
| F-0008         | 5.8 - 7.0   | HRB 35-70                                 | N/D                         | 200-390  | 170-260                               | 3-7                                      | 350-690                                   | Bal.   |                                     | 0.6-0.9   |           |           |           |           |           |           |
| F-0008HT       | 6.3-7.1     | HRC--22-35                                | HRC60                       | 450-660  |                                       | 4-7                                      | 690-1000                                  | Bal.   |                                     | 0.6-0.9   |           |           |           |           |           |           |
| FC-0200        | 6-6.9       | HRF60-65<br>HRB26-36                      |                             | 170-230  | 140-200                               | 6-8                                      | 310-40                                    | Bal.   | 1.5-3.9                             | 0-0.3     |           |           |           |           |           |           |
| FC-0205        | 6.0 - 7.1   | HRB 37-72                                 |                             | 240-410  | 240-340                               | 3-10                                     | 410-790                                   | Bal.   | 1.5-3.9                             | 0.3-0.6   |           |           |           |           |           |           |
| FC-0205HT      | 6.2-7.0     | HRC 10-36                                 | HRC58                       | 480-690  | 480-690                               | 3-7                                      | 660-930                                   | Bal.   | 1.5-3.9                             | 0.3-0.6   |           |           |           |           |           |           |
| FC-0208        | 5.8- 7.2    | HRB 50-84                                 |                             | 240-520  | 240-450                               | 3-9                                      | 410-1070                                  | Bal.   | 1.5-3.9                             | 0.6-0.9   |           |           |           |           |           |           |
| FC-0208HT      | 6.1 - 7.1   | HRC 20-43                                 | HRC60                       | 450-720  | 450-720                               | 3-7                                      | 660-1030                                  | Bal.   | 1.5-3.9                             | 0.6-0.9   |           |           |           |           |           |           |
| FC-0505        | 5.8-6.7     | HRB51-72                                  |                             | 300-490  | 250-390                               | 4-7                                      | 530-850                                   | Bal.   | 4.0-6.0                             | 0.3-0.6   |           |           |           |           |           |           |
| FC-0508        | 5.9-6.8     | HRB60-80                                  |                             | 400-570  | 340-480                               | 4-6                                      | 690-1000                                  | Bal.   | 4.0-6.0                             | .6-0.9    |           |           |           |           |           |           |
| FC-0808        | 6.0         | HRB65                                     |                             | 380  | 340                                   | 4  | 590                                       | Bal.   | 7.0-9.0                             | 0.6-0.9   |           |           |           |           |           |           |
| FC-1000        | 6.0         | HRF60                                     |                             | 210  | 180                                   | 5  | 370                                       | Bal.   | 9.0-11.0                            | 0-0.3     |           |           |           |           |           |           |
| FN-0205        | 6.6 - 7.4   | HRB 44-78                                 |                             | 280-480  | 170-280                               | 8-46                                     | 450-1030                                  | Bal.   | 0-2.5                               | 0.3-0.6   | 1.0-3.0   |           |           |           |           |           |
| FN-0205HT      | 6.6 - 7.4   | HRC 23-40                                 | HRC55                       | 620-1280   | 620-1280                              | 5-13                                     | 830-1720                                  | Bal.   | 0-2.5                               | 0.3-0.6   | 1.0-3.0   |           |           |           |           |           |
| FN-0208        | 6.7 - 7.4   | HRB 63-88                                 |                             | 310-620  | 240-380                               | 7-28                                     | 590-1170                                  | Bal.   | 0-2.5                               | 0.6-0.9   | 1.0-3.0   |           |           |           |           |           |
| FN-0208HT      | 6.7 - 7.4   | HRC 26-42                                 | HRC57                       | 620-1340   | 620-1340                              | 5-11                                     | 830-1720                                  | Bal.   | 0-2.5                               | 0.6-0.9   | 1.0-3.0   |           |           |           |           |           |
| FLN2C-4005     | 6.7 -7.4    | HRB 81-93                                 |                             | 480-900  | 450-570                               | 3-39                                     | 1000-1650                                 | Bal.   | 1.3-1.7                             | 0.4-0.7   | 1.5-2     | 0.4-0.6   | 0.05-0.3  |           |           |           |
| FLN2C-4005HT   | 6.7 - 7.4   | HRC 25-40                                 | HRC58                       | 790-1650   | 790-1240                              | 7-26                                     | 1280-2550                                 | Bal.   | 1.3-1.7                             | 0.4-0.7   | 1.5-2     | 0.4-0.6   | 0.05-0.3  |           |           |           |
| FLNC-4408HT    | 6.8 - 7.2   | HRC 21-30                                 | HRC55                       | 660-970  | 660-970                               | 9-22                                     | 1310-1720                                 | Bal.   | 1.0-3.0                             | 0.6-0.9   | 1.0-3.0   | 0.65-0.95 | 0.05-0.3  |           |           |           |
| FD-0205        | 6.75 - 7.4  | HRB 72-86                                 |                             | 470-690  | 360-460                               | 11-38                                    | 900-1450                                  | Bal.   | 1.3-1.7                             | 0.3-0.6   | 1.55-1.95 | 0.4-0.6   | 0.05-0.3  |           |           |           |
| FD-0205HT      | 6.75 - 7.4  | HRC 28-45                                 | HRC55                       | 720-1170   | 720-1170                              | 7-15                                     | 1100-1650                                 | Bal.   | 1.3-1.7                             | 0.3-0.6   | 1.55-1.95 | 0.4-0.6   | 0.05-0.3  |           |           |           |
| FD-0208        | 6.75 - 7.25 | HRB 80-90                                 |                             | 480-710  | 400-500                               | 9-23                                     | 930-1340                                  | Bal.   | 1.3-1.7                             | 0.6-0.9   | 1.55-1.95 | 0.4-0.6   | 0.05-0.3  |           |           |           |
| FX-1008        | 7.3         | HRB 89                                    |                             | 600  | 410                                   | 14                                       | 1140                                      | Bal.   | 8-14.9                              | 0.6-0.9   |           |           |           |           |           |           |
| FX-1008HT      | 7.3         | HRC 43                                    | HRC58                       | 830  | 830                                   | 9  | 1300                                      | Bal.   | 8-14.9                              | 0.6-0.9   |           |           |           |           |           |           |
| FX-2008        | 7.3         | HRB 90                                    |                             | 550  | 480                                   | 9  | 1080                                      | Bal.   | 15-25                               | 0.6-0.9   |           |           |           |           |           |           |
| FX-2008HT      | 7.3         | HRC 36                                    | HRC58                       | 690  | 690                                   | 7  | 1100                                      | Bal.   | 15-25                               | 0.6-0.9   |           |           |           |           |           |           |
| SS-303L        | 6.6 - 6.9   | HRB 21-35                                 |                             | 270-330  | 120-170                               | 54-75                                    | 570                                       | Bal.   |                                     | 0-0.03    | 8.0-13.0  |           |           | 0-2       | 17-19     |           |
| SS-304L        | 6.6 - 6.9   | HRB 30-45                                 |                             | 300-390  | 120-180                               | 61-108                                   | N/A                                       | Bal.   |                                     | 0-0.03    | 8.0-12.0  |           |           | 0-2       | 18-20     |           |
| SS-316L        | 6.6 - 6.9   | HRB 20-45                                 |                             | 280-390  | 140-210                               | 47-88                                    | 550                                       | Bal.   |                                     | 0-0.08    | 10.0-14.0 | 2.0-3.0   | 0-2       | 16-18     |           |           |
| SS-410L        | 6.9         | HRB 45                                    |                             | 330  | 180                                   | 68                                       | N/A                                       | Bal.   |                                     | 0-0.03    |           |           |           | 0-1       | 11.5-13.5 |           |
| CT-1000        | 7.2         | HRH 82                                    |                             | 150  | 110                                   | 5  | 310                                       |  | 87.5-90.5                           |           |           |           |           |           |           | 9.5-10.5  |

PS:資料來源為MPIF35