**主 要 钛 及 钛 合 金 加 工 材 料 性 能**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **钛**  **材**  **牌**  **号** | 钛及钛合金板材GB/T3621-2007 | | | | | 钛及钛合金棒材GB/T 2965-2007（注：现有标准之外增补的性能指标解释权归华西钛业公司） | | | | | | 钛及钛合金无缝管GB/T 3624-2010 | | | | | |
| 测试  状态 | 温室力学性能不小于 | | | | 温室力学性能不小于(≤64.5cm2≌Φ90mm) | | | | | |  | | | | | |
| **抗拉强度**  σb  (N/mm2) | **规定残余**  **伸长应力**  σ0.2  (N/mm2) | **伸长率**  σ5  ( % ) | | **抗拉强度**  σb  (N/mm2) | **屈服强度**  σ0.2  (N/mm2) | **伸长率**  σ5  ( % ) | **断面收缩率**  ψ  ( % ) | **冲击值**  ακ  (J/cm2) | **布氏硬度**  HB(d)  ( mm ) | **抗拉强度**  σb  (N/mm2) | | **规定残余**  **伸长应力**  σ0.2  (N/mm2) | | **伸长率**  φ  ( % ) | |
| TA1 | M | 240 | 140～310 | | 30 | 240 | 140 | 24 | 30 |  |  | 240 | | 140 ～310 | | 24 | |
| **TA2** | **M** | **400** | **275～450** | | **25** | **400** | **275** | **20** | **30** |  |  | **400** | | **275 ～450** | | **20** | |
| TA3 | M | 500 | 380～550 | | 20 | 500 | 380 | 18 | 30 |  |  | 500 | | 380 ～550 | | 18 | |
| TA5 | M | 685 | 585 | | ≥20～12 | 685 | 585 | 15 | 40 | 58.8 |  |  | |  | |  | |
| TA7 | M | 735～930 | 685 | | ≥20～12 | 785 | 680 | 10 | 25 | 29.4 | 3.4～3.9 |  | |  | |  | |
| TA9 | M | 400 | 275～450 | | 20 | 370 | 250 | 20 | 25 |  |  | 400 | | 275 ～450 | | 20 | |
| TA10 | M | 485/345 | 345/275 | | 18/25 | 485 | 345 | 18 | 25 |  |  | 460 | | 300 | | 18 | |
| TA15 | M | 930～1130 | 855 | | ≥12～8 | 885 | 825 | 8 | 20 |  |  |  | |  | |  | |
| TC1 | M | 590～735 |  | | 25～20 | 585 | 460 | 15 | 30 | 44.1 |  |  | |  | |  | |
| TC2 | M | 685 |  | | 25～12 | 685 | 560 | 12 | 30 | 39.2 |  |  | |  | |  | |
| **TC4** | **M** | **895** | **830** | | **≥12～8** | **895** | **825** | **10** | **25** | **39.2** | **≥3.35** |  | |  | |  | |
| **TC4E** | **M** | **860** | **795** | | **10** | **830** | **760** | **10** | **15** |  |  |  | |  | |  | |
| TC6 | M |  |  | |  | 980 | 840 | 10 | 25 | 29.4 | 3.2～3.7 |  |  | |  | |
| **TC4** | **M** | **895** | **830** | | **≥12～8** | **895** | **825** | **10** | **25** | **39.2** | **≥3.35** |  |  | |  | |
| TC6 | M |  |  | |  | 980 | 840 | 10 | 25 | 29.4 | 3.2～3.7 |  |  | |  | |
| **TC11** | STA | **1030** | **900** | | **10** | **1030** | **900** | **10** | **30** | **29.4** | **3.2～3.7** |  |  | |  | |
| TC17 | M |  |  | |  |  |  |  |  |  |  |  |  | |  | |
| TC18 | STA | 1080～1230 | 1010 | | ≥8～7 | 1080～1230 | 1010 | ≥8～7 | 16 | 25 | 3.1～3.6 |  |  | |  | |
| TC21 | M |  |  | |  |  |  |  |  |  |  |  |  | |  | |
|  |  |  |  | |  |  |  |  |  |  |  |  |  | |  | |