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WCu, WAg alloy standards for some countrys and companys

| Grades | Standards | Density /g . cm³ (±) | Hardness | Electrical Resistivity /μΩ . cm | Electric Conductivity /%IACS |
|---------------|------------------------------------|--|-----------------|--|---|
| W50Cu | Chinese National Standard | 11.85 | 115HB | 3.2 | 54 |
| | American ASTM standard | 11.7 | 69~83HRB | 2.7~4.5 | 38~64 |
| | JPMA standards in Japan | 12.5 | 60~80HRB | 3.1~3.2 | 55~75 |
| | Germany Doduco Company | 12.2 | 110~140HV | 3.8~4.5 | 38~45 |
| | Tungsten Corporation Ltd. of Japan | 12.0 | 78HRB | 3.1 | 55 |
| | Austria Plansee Company | 11.6 | 120HRB | 2.6 | 58 |
| W40Cu | Chinese National Standard | 12.75 | 140HB | 3.7 | 47 |
| | American ASTM standard | 12.7 | 77~90HRB | 3.0~5.0 | 34~57 |
| | JPMA standards in Japan | 13.4 | 70~85HRB | 2.65~3.45 | 50~65 |
| | Germany Doduco Company | 13.2 | 140~170HV | 4.2~5.0 | 34~41 |
| | Tungsten Corporation Ltd. of Japan | 13.2 | 88HRB | 3.4 | 50 |
| | Austria Plansee Company | 12.7 | 140HRB | 3.3 | 51 |
| W30Cu | Chinese National Standard | 13.8 | 175HB | 4.1 | 42 |
| | American ASTM standard | 13.7 | 85~98HRB | 3.3~5.9 | 29~52 |
| | JPMA standards in Japan | 14.5 | 85~100HRB | 3.1~4.3 | 40~55 |
| | Germany Doduco Company | 14.3 | 160~200HV | 4.5~5.6 | 31~38 |
| | Mitsubishi Corporation | 14.2 | 210HB | 3.6 | 48 |
| | Austria Plansee Company | 14.0 | 150HB | 4.0 | 43 |
| | JMM Company UK | 13.6 | 160HV | 5.3 | 33 |
| W20Cu | Chinese National Standard | 15.0 | 220HB | 5.0 | 34 |
| | American ASTM standard | 15.0 | 94~106HRB | 3.8~6.9 | 25~45 |
| | JPMA standards in Japan | 15.6 | 95~115HRB | 3.85~5.76 | 30~45 |
| | Germany Doduco Company | 15.6 | 210~250HV | 5.0~6.3 | 27~34 |
| | Mitsubishi Corporation | 15.6 | 99~102HRB | 4.31~4.55 | 38~40 |
| | Austria Plansee Company | 15.4 | 180HB | 5.0 | 35 |
| | JMM Company UK | 15.2 | 240HV | 6.17 | 28 |
| W50Ag | Chinese National Standard | 13.15 | 105HB | 3.0 | 57 |
| | American ASTM standard | 13.85 | 55~60HRB | 2.5~2.97 | 58~68 |
| | JPMA standards in Japan | 13.8 | 55~80HRB | 2.46~2.97 | 58~70 |
| W40Ag | Chinese National Standard | 14.0 | 125HB | 3.4 | 51 |
| | JPMA standards in Japan | 14.6 | 50~60HRB | 2.8~3.4 | 50~60 |
| | Tungsten Corporation Ltd. of Japan | 14.2 | 55~80HRB | 3.0 | 57 |

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|--------------|------------------------------------|-------|------------|-----------|-------|
| W35Ag | Chinese National Standard | 14.5 | 135HB | 3.6 | 48 |
| | American ASTM standard | 15.12 | 73~86HRB | 2.9~3.8 | 45~60 |
| | JPMA standards in Japan | 15.1 | 75~95HRB | 2.97~3.75 | 46~58 |
| | Tungsten Corporation Ltd. of Japan | 14.6 | 83HRB | 3.1 | 55 |
| | Austria Plansee Company | 14.0 | 110HB | 3.7 | 47 |
| W30Ag | Chinese National Standard | 14.9 | 150HB | 3.8 | 45 |
| | American ASTM standard | 15.74 | 105HRB | 3.2 | 40~54 |
| | JPMA standards in Japan | 15.6 | 100HRB | 3.2 | 42~54 |
| | Germany Doduco Company | 15.4 | 190HV | 3.3 | 34~45 |
| | JMM Company UK | 15.6 | 220HB | 4.0 | 43 |
| | Tungsten Corporation Ltd. of Japan | 15.1 | 205HB | 3.31 | 51 |
| W20Ag | Chinese National Standard | 16.1 | 180HB | 4.6 | 37 |
| | JPMA standards in Japan | 16.6 | 90~110HRB | 4.5 | 38~50 |
| | Germany Doduco Company | 16.4 | 150~230HRB | 3.3~4.6 | 37~52 |
| | Tungsten Corporation Ltd. of Japan | 16.2 | 103HRB | 3.8 | 45 |
| | Austria Plansee Company | 15.6 | 180HB | 5.0 | 35 |