

# TECHNICAL CHARACTERISTICS

## Wafer Style 6WF Tweezers

- Composition**

| Component | Wt.%    | Component | Wt.%      | Component | Wt.%      |
|-----------|---------|-----------|-----------|-----------|-----------|
| C         | ≤0.03   | Si        | ≤1.0      | Mn        | ≤2.0      |
| P         | ≤0.045  | S         | ≤0.03     | Cr        | 17.0-19.0 |
| Mo        | 2.5-3.0 | Ni        | 12.5-15.0 |           |           |

- Mechanical properties:**

|                            |                       |
|----------------------------|-----------------------|
| State                      | annealed              |
| Density                    | 8.0 g/cm <sup>3</sup> |
| hardness HB30              | ≤215                  |
| Hardness Rockwell B        | 79                    |
| Tensile strength, ultimate | 500-700 MPa           |
| Tensile strength, yield    | 290                   |
| 0.2% Yield stress          | ≤200 MPa              |
| Elongation, break          | 40%                   |
| Modulus of elasticity      | 200 GPa               |
|                            |                       |

- Thermal properties**

|                               |              |            |
|-------------------------------|--------------|------------|
| Coef. of lin. therm expansion | 16.0 E-6/°C  | 20°C-100°C |
| Coef. of lin. therm expansion | 17.0 E-6/°C  | 20°C-300°C |
| Specific heat capacity:       | 0.50 J/(g·K) |            |
| Thermal conductivity:         | 15W/(m·K)    |            |
| Continuos use temperature:    | 350°C        |            |
| Max service temperature, ait  | 925°C        |            |

- Electrical properties**

|             |                 |
|-------------|-----------------|
| Resistivity | 0.75 E-4 Ohm.cm |
|-------------|-----------------|