

# Ta 99.9% Ø21x5mm - 0481638

## Specifications

|                                                  |             |
|--------------------------------------------------|-------------|
| Coating material                                 | Tantalum    |
| Purity                                           | 99.9%       |
| Form                                             | Disc        |
| Dimensions                                       | Ø 21 x 5 mm |
| Quantity                                         | 1 pc        |
| Theoretical density at 20°C in g/cm <sup>3</sup> | 16.6        |
| Melting point in °C                              | 3017        |

## Temperature at vapor pressure

|                             |      |
|-----------------------------|------|
| 10 <sup>-2</sup> mbar in °C | 3040 |
| 10 <sup>-1</sup> mbar in °C | 3310 |
| Boiling point in °C         | 5458 |

## Evaporation source (typically)

### E-gun

|                           |      |
|---------------------------|------|
| Directly from Cu crucible | Good |
|---------------------------|------|

### Boat

## Specific evaporation conditions

|                       |      |
|-----------------------|------|
| Low residual pressure | Good |
|-----------------------|------|

## Film refractive index n / extinction coefficient k

|              |                |
|--------------|----------------|
| at 550 nm: n | 2.36-2.56      |
| at 550 nm: k | 1.81-1.86      |
| at 10 µm: n  | 14             |
| at 10 µm: k  | 46.4(10.33 µm) |