Specification
for Evaporation Material

JUBoSE

**巨玻固能(苏州)薄膜材料有限公司　Jubo Guneng(SuZhou)Thin Film Materials Co., Ltd.**

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| **Material材料名称:** | Ta2O5 五氧化二钽 | |
| **Article No.产品编码:** | BoSE-22-20 | |
| **Delivery Form产品规格:** | 1.0-3.0mm | Black |
| **Material Properties:** | Chemical Formula分子式: | Ta2O5 |
| **材料特征:** | Purity纯度: | >3N5 |
| | Typical Impurities杂质类型 [ppm]: | Nb <100　Si,W,Sn,Ca,Mg,Zr,Fe<20 |
| | Density-theoritical 理论密度: | 8.2 g/cm3 |
| | Melting Point熔点: | 1880 ℃ |
| **Test Parameters:** | Coating Equipment镀膜设备: | ZZS-700 |
| **测试参数:** | Evaporation Source蒸发源: | Electron Beam Gun 电子枪 |
| | Substrate Temp.基底温度: | 250-300 ℃ |
| | Process Gas充气压力: | 3~6 x 10-4 mbar Oxygen |
| | Evaporation Rate蒸发速率: | 0.2~0.7  nm/s |
| **Thin Film Properties:** | Chemical Composition化学成分: | Ta2O5 |
| **薄膜参数:** | Refractive Index折射率: | 2.1 (l= 550 nm) |
| **Remark** | Transparency Range透明区域: | 300nm~10 um |
| **备　注:** | Melting Behaviors蒸发习性: | Film densification, good at chemical stability.<br>成膜致密，化学稳定性好。 |

**Material Certification声明:**

We certify, the material is in compliance with the specifications stated above.

我们证明，该材料符合上述规范。

**Date 日期:** 2021-1-19

**Certificate No.证书编号:** JBSE-Specification 079.22.20

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