

NbO₂

NbO₂ FOR TRANSPARENT OPTICAL THIN FILMS

Application

Niobium Dioxide is used for the production of transparent optical thin films. Niobium Oxide layers are transparent, dielectric and wear resistant.

Forms of Delivery

granules, tablets, targets

Suggested Evaporation Method

Electron Beam

Typical Analysis (in wt%)

NbO ₂	> 99.9%
Al ₂ O ₃	<0.002
CoO	<0.001
Cr ₂ O ₃	<0.001
CuO	<0.001
Fe ₂ O ₃	<0.003
MnO	<0.001
NiO	<0.001
SiO ₂	<0.010
ZrO ₂	<0.001
ZnO	<0.001
TiO ₂	<0.002

Physical and optical properties

Melting point:	~ 1900 °C
Theoretical density:	5.9 g/cm ³
Density supplied:	> 85% TD
Refractive index:	1.85 - 2.0