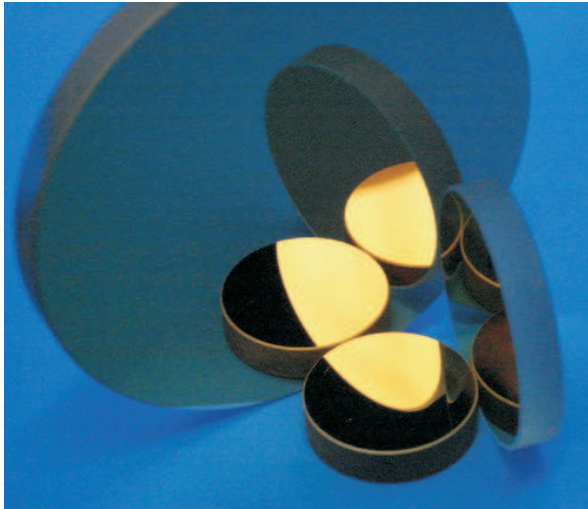


# THz Mirrors

Tydex offers mirrors for applications where THz radiation has to be fully reflected.



The following THz mirrors are available from stock:

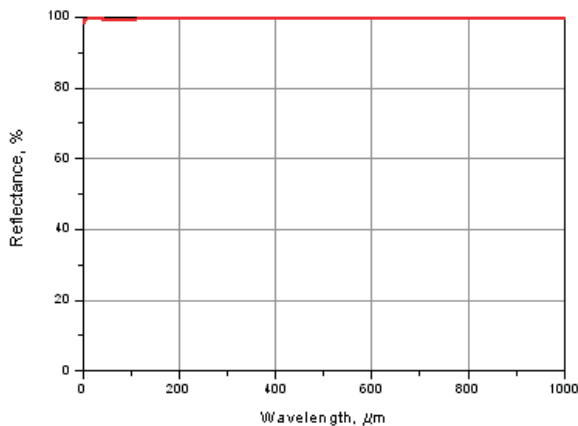
No.	Diameter		Thickness
	mm	inches	mm
1	25.4	1.0	6.35
2	38.1	1.5	6.35
3	50.8	2.0	6.35
4	76.2	3.0	6.35

Custom sizes are manufactured upon request. The finished parts of different dimensions are available from stock and supplied within a week. Please check the Optics stock at our website. For price quotation and delivery please fax or e-mail us.

*Common specification:*

Material of substrate	<b>Quartz glass</b>
Type	Plano-plano
Dimensions tolerance, mm	+/-0.25
Clear aperture, %	>=90
Surface quality of polished surfaces, scr/dig	40/20
Surface quality of ground surface, Ra	2.5
Surface accuracy, $\lambda@633\text{nm}$	1/4
Coating	Protected gold
Thickness of gold layer, nm	~400

Typical reflection curve is shown below. Measurements were made up to 1000  $\mu\text{m}$ . However, operating wavelength range is much wider.



*Fig. 1. Reflection of THz mirror.*



**TYDEX**<sup>®</sup>  
J.S.Co.

Domostroitelnaya str. 16, 194292 St.Petersburg, RUSSIA  
Tel: 7-812-3346701, -3318702; Fax: 7-812-3346702  
E-mail: tydex@tydex.ru, URL: <http://www.tydex.ru>