

4555, Kaisei-cho, Shunan, Yamaguchi 746-0006, Japan

## Certificate for RoHS Compliance

We hereby certify our products as conforming to RoHS Directive 2002/95/EC, that is, element impurities of Hazardous Substances are less than RoHS threshold value.

1. Products: TOSOH Silica Glass Materials; Material Grade : S, ES, SD, ED, N, NP, OP-1, OP-3

## 2. Hazardous Substances

Substances	Chemical Analysis Data (ppm)	Detective Lower Limit (ppm)	Analysis Method	Threshold (ppm)
Cadmium (Cd)	<1	1	ICP - AES	100
Mercury (Hg)	< 1	1	Reduced Vaporized - AAS	1000
Lead (Pb)	< 1	1	ICP-AES	1000
Hexavalent Chromium (Cr) as total Cr	<1	1	ditto	1000
Polybrominated biphenyls (PBB) as total Br	< 100	100	ditto	1000
Polybrominated diphenyl Ethers (PBDE) as total Br	< 100	100	ditto	1000
Diarsenic pentaoxide as total As	< 0.05	0.05	ditto	
Diarsenic trioxide as total As	< 0.05	0.05	ditto	
Lead hydrogen arsenate as total As	< 0.05	0.05	ditto	

Remark) Three compounds from the bottom were added considering the recent press release ECHA on REACH SVHC.

DaTE: Aug 8th, 2012

Approved by:

K. Fujicka

Kazuhiko Fujioka, Deputy General Manager, Environmental, Health & Safety, and Quality Assurance Department, Tosoh SGM Corporation