

WHITE REFERENCE TILE ACCESSORIES

Operation and Installation Manual



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1. WS2

1.1 Parts included

1. White reflective tile
2. WS2 Operating manual

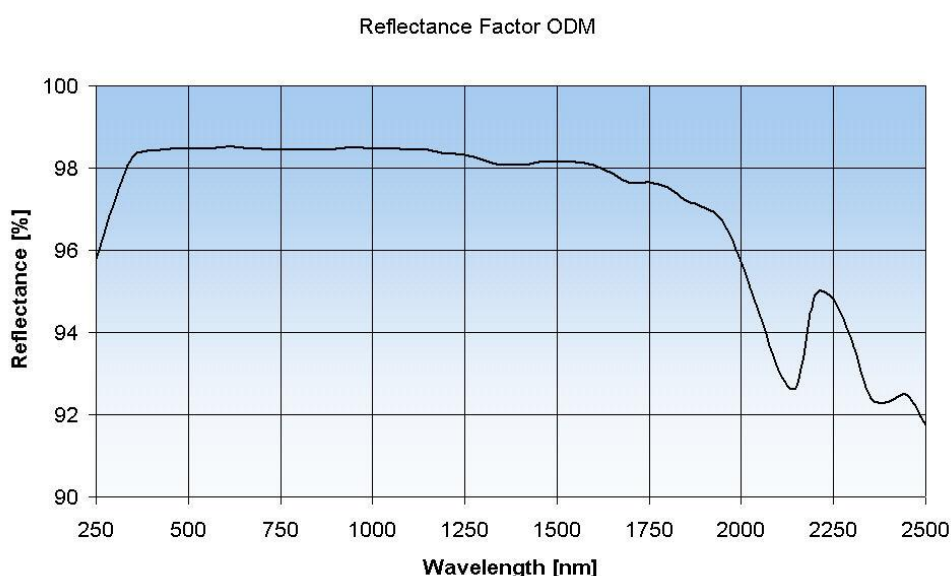
The WS-2 white reference tile is made out of a white diffuse plastic material, meeting the highest demands with regard to high grade diffuse reflectance, mostly used in colorimetry applications where a reference signal has to be obtained during a reflection measurement. Thanks to most accurate preparation of the PTFE and its processing to an amorphous structure, the tile reflects light from 350-1800 nm with ca 98% and from 250-2500nm more than 92%. The material offers along term stability, even in deep UV applications, the plastic is hydrophobic and chemically inert. The material can be delivered as custom designed items, such as the WS-2-GEM with a 10 mm radius hole for nitrogen cooling of gemstones for gemology applications, contact us for more information.

1.2 General Care

WS-2 is an optical standard and should be handled in much the same way as other optical standards. Although the material is very durable, care should be taken to prevent contaminants such as finger oils from contacting the material's surface, because this causes a loss of reflectivity especially in the UV region. Always wear clean gloves when handling WS-2!

1.3 Cleaning Instructions

If the material is lightly soiled, it may be air brushed with a jet of clean dry air or nitrogen. DO NOT use Freon. For heavier soil, the material can be cleaned by using an ultrasonic bath with double distilled or deionized water for 2 hours at 40 to 60°C. After this dry the WS-2 piece at 60°C for a 12-hour period (If possible at a vacuum of 1 Torr or less, then purge the vacuum oven with clean dry air or nitrogen). Caution!! Never use soap-water, alcohol, and organic or any other cleaners for WS-2. This will cause a big loss of reflectivity in the UV reflectance.





1.4 Technical Specifications

Reflectivity (see curve)	>98% (350-1800nm) >92% (250-2500nm)
Max. temperature	280 °C
Dimensions tile	32mm diameter / 10mm thick
Housing	38 mm diameter, black anodized

1.5 Ordering Information

WS-2	White reference tile
WS-2-GEM	White reference tile with hole, specially for Gemstone measurement