

BAADER PLANETARIUM

GmbH



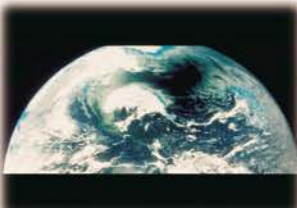
© Dr. Sargis Koutchmy



Total solar eclipse



Sunspot size in comparison to Earth

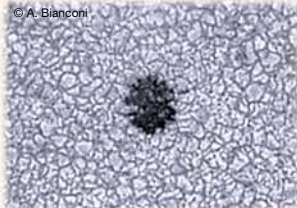


Satellite image of a solar eclipse



Solar observation with 1m telescope

© A. Bianconi



High magnified solar granulation

© B. Wilhelm



Sun in „AstroSolar H-alpha“ with 3.5nm Filter

BAADER AstroSolar® Safety Film (OD 5.0)

FOR PRODUCTION OF OBJECTIVE-SOLAR-FILTERS (VISUAL & PHOTO)

FOR TELESCOPES, BINOCULARS, PHOTO- AND VIDEO-CAMERAS

● AstroSolar® Safety Film 5.0 is a patented, specially manufactured streak- and blister-free film (no Mylar).

● The basic development of this precision film was made in laboratories for nuclear and particle physics. Due to its absolute homogeneity and proprietary postproduction treatment, the film attains the optical performance of high quality planeparallel glas-filters.

● High density coatings on both sides of the film ensure a highly uniform filtering capacity without dangerous effects, to result in an extremely contrasty solar image with neutral density characteristics. The sun appears in it's real „color“ – neutral white – not blue or orange.

● The coating of AstroSolar® Safety Film 5.0 is subject to constant quality control. Its reflective property and security for solar observation through optical instruments is being tested repeatedly.

● Do not use AstroSolar® Safety Film 5.0 with open-truss telescopes unless the tube is covered by a shroud. Always cover additional finderscopes and telescopes with a lightproof front cover.



● AstroSolar® Safety Film 5.0 is designed to serve as precision optical window for telescopic and photographic solar observation. Use AstroSolar® Safety Film 5.0 only in front of a telescope, binocular or camera lens.

Since AstroSolar® Safety Film 5.0 is the only film-material made to not deteriorate the optical wavefront, it does allow to attain high magnification with any long-range optics without reducing sharpness or contrast of the solar surface.

This A4 poly bag contains:

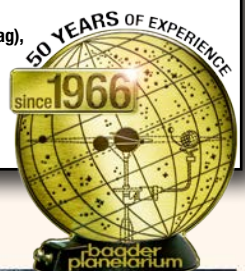
● **BAADER AstroSolar® Safety Film 5.0 (in A4-sized poly bag),**
Optical Density = 5.0, size: 200 x 290 mm, # 2459281
incl. detailed instruction for DIY-production of your own objective solar-filter cell

AstroSolar® Film is also available in the following sizes / versions

● **BAADER AstroSolar® Safety Film 5.0 ½ sqm (in poster tube),**
OD = 5.0, size: 100 x 50 cm, # 2459282 incl. instructions for DIY cell

● **BAADER AstroSolar® Safety Film 5.0 ECO-size (in poly bag),**
OD = 5.0, size: 140 x 155 mm, # 2459286 incl. instructions for DIY cell

● **BAADER AstroSolar® Photo Film 3.8**
OD = 3.8, size: 200 x 290mm, # 2459278
including instructions for DIY filter cell. Not for visual observations.
Use photo-film only for projection imaging / high magnification work.



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ASTRONOMICAL INSTRUMENTS

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Important note: The eye safety norm EN ISO 12312-2:2015-11 for naked eye solar viewers does not apply to front aperture filters, covering long-range optics. AstroSolar® Safety Film 5.0 is not authorized to be used for naked eye solar observation or production of solar viewers. For direct solar viewing without telescope, binocular or camera optics, inquire for our EN ISO 12312-2:2015-11 certified eclipse shades equipped with AstroSolar® Silver/Gold Film.