

BAADER PLANETARIUM

GmbH



BAADER AstroSolar™ Safety Film

Patent pending in all 32 European States under Reg.-No.: 091010073

Ideally suited for production of Objective-Solar-Filters, for Binoculars, Telescopes, Photo- and Video-Cameras.

1. AstroSolar™ Safety Film is a specially manufactured ultra-thin solar filter film.

2. The basic technology of the AstroSolar™ Safety Film is ultrathin, 10-micron and contains Physics Class 9.99 window technology, the film shows the natural color, instead of high quality yellow, orange glasses.

3. High density coating on both sides of the film enables it to resist flexing, tearing, to resist 40 times effect, to resist in an extremely durable form, made with neutral density characteristics. The sun appears in "black color" - neutral white - instead of orange.

4. The coating of AstroSolar™ Safety Film is added to combat quality control. It reflects particles and actively 24-hour solar observation is being tested successfully by the IEC test.



German Patent Office of Munich, for Eye Safety. Complies with safety standards in contact with the CE symbol.

AstroSolar™ Safety Film has been tested by Carl Zeiss Jena's by production of filters of optical lenses.

BAADER AstroSolar™ Safety Film is available in following sizes:
1. BAADER AstroSolar™ Safety Film 4x6 (in 100g box) from 100 x 100 mm, and detailed instructions for production of your own objective solar filter set.
2. BAADER AstroSolar™ Safety Film 12x18 (in 100g box) from 100 x 100 mm, and detailed instructions for production of your own objective solar filter set.

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Baader Solar Foil A4 size - a high-class solar filter that allows you to safely observe the Sun's surface after proper mounting on the lens of the telescope, binoculars, on the elements of the finder's optics. The filter is in the form of a metallized film, which only lets a small fraction of the sun's rays. The solar film meets the highest quality standards by passing one hundred degrees of sunlight. Mounted on the front of the binoculars (necessarily both lenses), telescope or telescope allows you to get great images of the sun when looking directly through the eyepiece. Technical data: dimensions: 20 x 29 cm (A4) - filtration level: 99.999% - film thickness: 0.012 mm - transmission symbol / class: ND5 (foil intended for visual observations and simple photographs) - quality standard: CE (exemplary application of the film - photo of the solar eclipse from March 20, 2015, visible large sunspot) comparison of Baader Solar Foil ND 3.8 and ND 5 transmission; the ND 3.8 film permits 16 more light than ND 5 and is therefore not suitable for visual observation (measurements on the Varian Cary 100 spectrophotometer, July 2015) Note: on request, it is possible to purchase foils with other dimensions, as required. In this case, a multiple of the basic dimension is taken. For example, a 150 mm Newton telescope requires a film of about 17x17 cm = about 300 square meters, i.e. a foil having an area equal to three times the basic dimension is required. In this case, you should buy 3x 10 cm x 10 cm and let us know what size of the tube the filter will be made, so that we properly cut out the film according to your specifications. A table of example dimensions below. Cover the foil do this: or, if you like to do everything exactly, look below.