

# Technical Data Sheet

## Starch Detector Fluid – SD120 Ink

SD120 is an alcohol and water-based fluid which can be used for the detection of starch in paper and other materials. Papers and materials containing sufficient quantities of starch will darken upon application of the fluid. Papers or materials which do not contain sufficient quantities of starch will show only a clear, very slightly yellow mark.

Currency paper is strictly controlled in its manufacture and supply. It is normally virtually free from starch, while counterfeit currency is normally printed on paper which contains starch. When a mark is made on to genuine currency, the mark will appear clear or very light but on counterfeit currency, the mark will appear very dark. Most forged currency can be detected, making the product useful to traders, money establishments, and private individuals.

### ● Standard Colours

Ink Colour	Typical Viscosity (20°C) (mPa.s)	Typical pH (20°C) (g.cm <sup>-3</sup> )
● SD120 ink	3.0	4.0

### ● Component Selection Advice

For optimum performance, markers should ideally be stored in the horizontal orientation and should be capped securely.

**Nib** - Polyester or acrylic (high porosity) around 65%

**Reservoir** - Polyester with polypropylene wrapping and a density of 0.18 g.cm<sup>-3</sup>

**Barrel** - Polypropylene (PP), polyethylene (PE)

**Head/tail caps** - Polypropylene (PP), polyethylene (PE), BS 7272-1:2008 compliant

Please test and approve our inks in your own components

### ● Shelf Life

The shelf life of SD120 ink is 12 months from receipt when stored in the original sealed containers. It is recommended to store the inks between 10°C and 30°C.

Drums should be stored for at least 24 hours at room temperature (around 20°C) and then thoroughly agitated until the ink is uniform before to use.

**Caution:** SD120 ink is a flammable liquid, so please handle accordingly. For more information, please refer to the Material Safety Data Sheet.

✉ For further information please email [lab@multichem.net](mailto:lab@multichem.net)

**Disclaimer:** It is your responsibility as the writing instrument manufacturer to establish the overall safety and fitness for purpose of the marker components incorporating our inks and to establish overall compliance to regulations and legislation related to the industry. All marker pen components should be thoroughly tested by you for compatibility with our inks. Multichem makes no guarantees (either express or implied) with respect to this technical data or our advice regarding component selection. Multichem will not accept any liability for any loss arising in connection with this technical data or the recommendations expressed within (other than that resulting from our gross negligence). Please contact your component suppliers for more specific advice regarding component suitability and selection. The information contained within this technical data sheet is not exhaustive and you should verify the performance of your final product.