

TECHNICAL TUESDAYS

TOPIC: Properties of Sulphur Dyes

REF: TT/ Mar 2016/ WK 3

Properties of Sulphur Dyes:

The main properties and characteristics features of Sulphur dyes are mentioned below:-

1. Sulphur dyes have Sulphur linkage within their molecules.
2. Sulphur dyes are highly coloured water insoluble dyes. Some dyes are partially soluble in water.
3. They have no direct affinity towards cellulosic fibres. To make them substantive they are to be converted in to soluble lucoform by treating them with reducing agents (Like dilute Na₂S solution)
4. Sulphur dyes have good light fastness with rating. This light fastness may be improved by an after treatment with metallic salt.
5. These dyes have excellent wash fastness with rating. This good wash fastness is due to its larger molecular size & insolubility in water.
6. They are not applicable to wool due to strong alkaline condition.
7. They are exclusively amorphous, few of them show crystallinity.
8. Important for producing a wide range of shades on a variety of cotton and rayon.
9. Sulphur dyes are suitable for heavy & durable shades
10. Available in powder.

Wishing you a great week ahead!

Technical Tuesdays is a knowledge sharing initiative by Resil Chemicals Private Limited
arc@resil.com | www.resil.com