



IF YOU HAVE CONCERN
ZERO EMISSION

SULTAN BLACK P-ZR

Zero H₂S Emission

On the Pulp & Paper

An Advanced Liquid
SULPHUR BLACK
Dyestuff Concept

SULTAN BLACK | P-ZR

Sultan Black P product range focusing new production technology, ecological and application performance that are compliant with environmental aspects, trends, health and safety standards of 21st Century's paper industry.

Sulphur dyestuffs are insoluble in water. They must be converted into soluble leuco compounds by means of reduction in an alkaline medium with reducing agent.

Biodegradability, toxicity or pollution of water and air are not taken into consideration with reducing agent.

Since in the reduction of sulphur dyes to give leuco sulphur dyes there are formed inorganic polysulphides (**mainly Na₂S, Na₂S_x and/or NaHS**) and some sulphide in excess may be present, which constitute a disturbing component in the final product as it cause development of H₂S when handling the dye or when dyeing with it, and/or results in the occurrence of inorganic sulphides in the back-water of the dyeing process.

APPLICATION

Tissue	<input checked="" type="checkbox"/>
Fine Paper	<input checked="" type="checkbox"/>
Decor Paper	<input checked="" type="checkbox"/>
Laminate Paper	<input checked="" type="checkbox"/>
Packaging	<input checked="" type="checkbox"/>
Wood Based	<input checked="" type="checkbox"/>



We are proud to develop an Advanced processing technology;

- ▶ Sultan Black P does not contain Sulphur Base Reducing Agents like Na₂S, NaHS
- ▶ Zero H₂S emission while fixation with acidic chemical mainly Poly Aluminium Chloride
- ▶ Clear and dischargeable waste water control
- ▶ Build up Deep and Intense Black Shade
- ▶ High fastness properties
- ▶ Better penetration, diffusion and fixing.
- ▶ High stability of storage and usage
- ▶ Ecological
- ▶ High reproducibility

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