

TECHNICAL TUESDAYS

TOPIC: Singeing Process

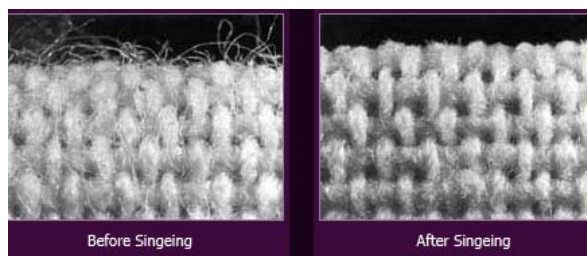
REF: TT/ Aug 2015/ WK 2

What is singeing?

Singeing refers to the burning of loose fibers that are not firmly bound to the yarn and/or fabric structure. Singeing is an important part of pretreatment.

Objective of Singeing:

- To remove hairy fibers that project from the surface of the cloth and to smoothen the surface.
- To increase luster of the finished fabric.
- To prepare the fabric for the next process.



Types of Singeing:

- 1. Hot plate Singeing:** Using guide rollers, fabrics are passed over a hot plate – fabrics get singed on contact.
- 2. Roller Singeing:** Using guide rollers, fabrics are passed over hot rollers – fabrics get singed on contact.
- 3. Gas Singeing:** Most commonly used singeing process - uses one or more burners to complete the singeing process.



Advantages of gas singeing:

- Both sides of the fabric are singed simultaneously
- Uniform singeing of the fabric
- Fibers in the interstices between the warp and weft are also burnt effectively; it is not possible in other machines
- Machine speed is high, therefore achieving good production is possible
- The flame length can be controlled

Important gas singeing parameters:

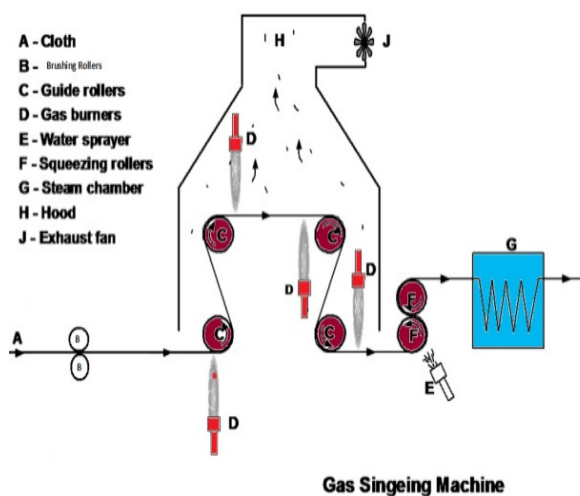
Flame intensity

Fabric speed

Singeing position

Distance between flame burner and fabric

Flame width



Wishing you a great week ahead!

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