

KNITTED FABRICS DEFECTS

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INTRODUCTION

- Defect refers to the fault that spoils the material or absence for completeness or perfection
- There is need to check fabric defects due to avoid rejection of fabrics because then to sold the manufactured material the price is reduced by 45-65%.
- A defect of the knitted fabric is an abnormality which spoils the aesthetics i.e. the clean & uniform appearance of the fabric & effects the performance parameters, like; dimensional stability etc.



CATEGORIES OF DEFECTS



Yarn
related
defects

- **barrieness**
- **Thick and thin lines**
- **contamination**

Knitted
elements
defects

- **Needle and sinker lines**
- **Drop stitches**
- **Missing picks**

Machine
setting
related
defects

- **Fabric press off**
- **barrieness**
- **Drop stitches**
- **Yarns streaks**

Dyeing
related
defects

- **Dyeing patches**
- **Shade variation skewing**
- **spirality**
- **Fabric width variation**



COMMON DEFECTS OF KNITTED FABRICS

1.

BARRINESS: It is a defect which is characterised by textural braids or colour bands in the course direction of a weft knitted fabrics.

Causes: *Use of irregular yarns long term irregularities.

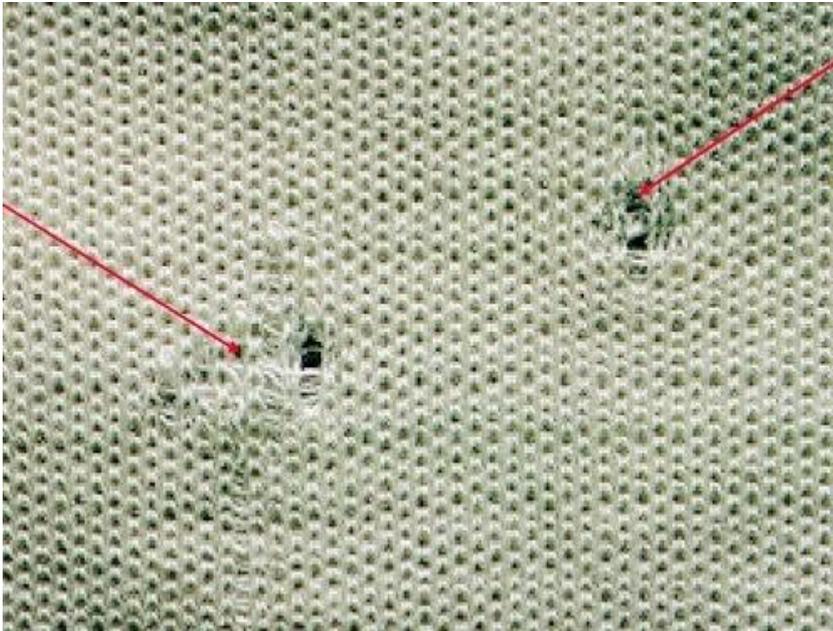
*High yarn tension.

*Count Variation



HOLES

- Holes can be of 3 types:
Hole, Pin hole, Star hole

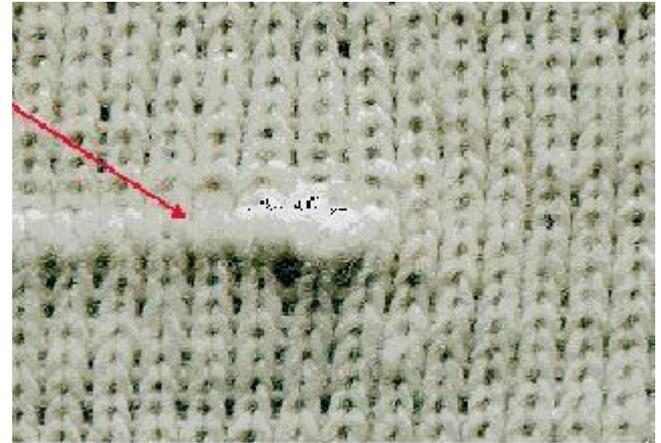


- **CAUSES**: Broken needle
 - Improper cleaning of machine
 - yarn breakage at knot
 - very high yarn twist
 - Curved needle latch



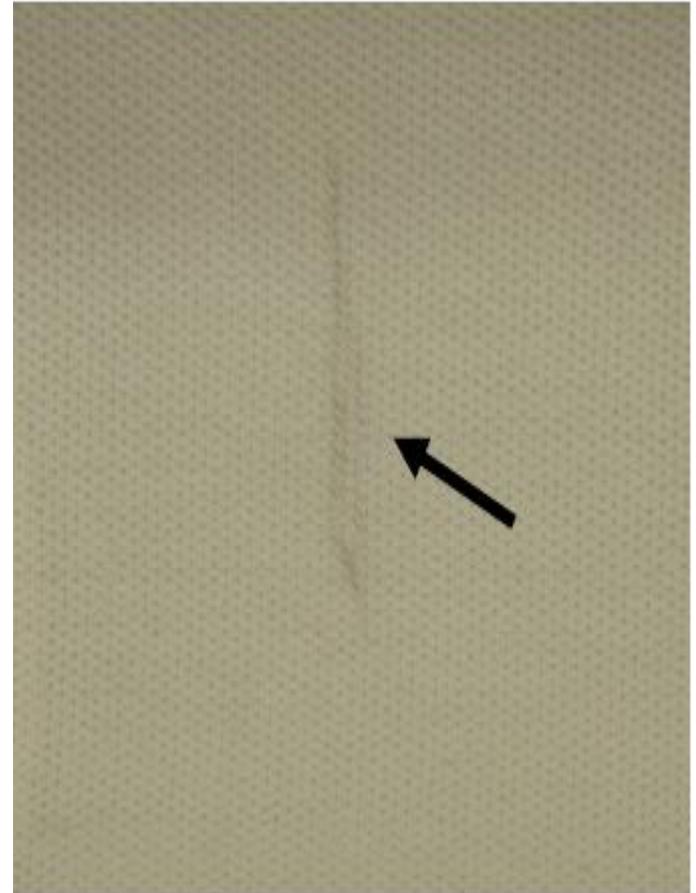
SLUBS

- It is unevenly placed or randomly appearing knots.
- **CAUSES**: Usually caused by a thick or heavy place in yarn or by ling getting onto yarn feeds.



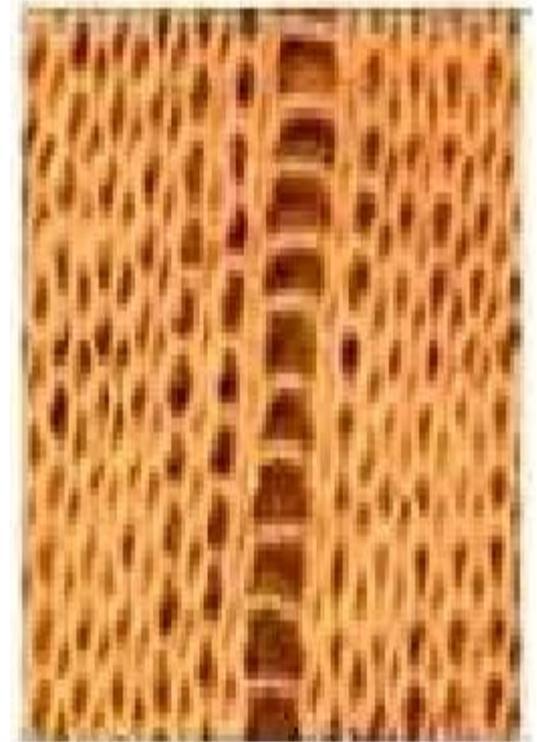
OIL MARK

- When oil lick through the needle trick then it pass on the fabric and make a line it is then called oil mark/stain/line.
- **CAUSES:**
 - Grease and oil stains from the unguarded moving machine parts.
 - Fabric touching the floors and soiled places, during transportation on the trolleys.



BROKEN NEEDLE

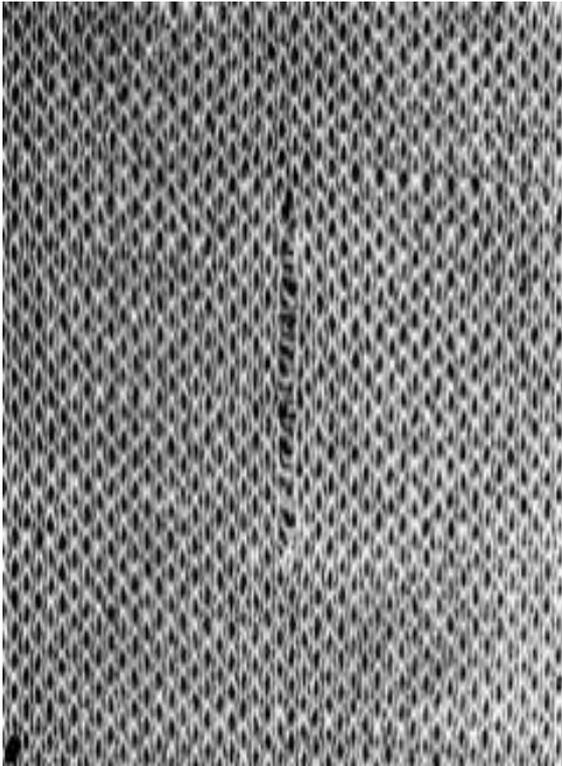
- Defects caused by the broken needles show prominently as vertical lines parallel to the Wales. There are no loops formed in the Wale which has a broken needle.
- **Causes:**
 - High Yarn Tension
 - Bad Setting of the Yarn Feeders
 - Old & Worn out Needle set.



Broken Needle



DROP STITCHES



- Local column of dropped stitches.
- CAUSES:
 - yarn guide may not be set properly.
 - Defective latch needle .
 - Yarn tension is too high.
 - Wrong yarn threading





Thank you!

