

# SPINNERS DEMANDS ON FUTURE COTTON PROPERTIES

- BREMEN AACHEN SURVEY -

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# Bremen Aachen Survey

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- The report presents the results from the Bremen Aachen Survey on Cotton Quality, which was implemented worldwide in 2016/2017.
- Implemented by
  - Faserinstitut Bremen e.V. / Bremer Baumwollboerse
  - ITA Aachen / ITA GmbH
- This worldwide survey builds a basic collection of information to discuss demands of the textile industry for the interest of
  - cotton producers
  - researchers



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- Questions
  - Section A: General Information about the responding companies
    - Country, size, activities, processing technologies, processed materials, products
  - Section B: Materials and Properties
    - Most important yarn properties
    - Cotton properties: defects/deficiencies, potential/demand for improvements
    - Competing fibres, man-made fibre properties
    - Blends
  - Section C: Cotton Identity Programs
    - Identity programs, benefits, deficiencies

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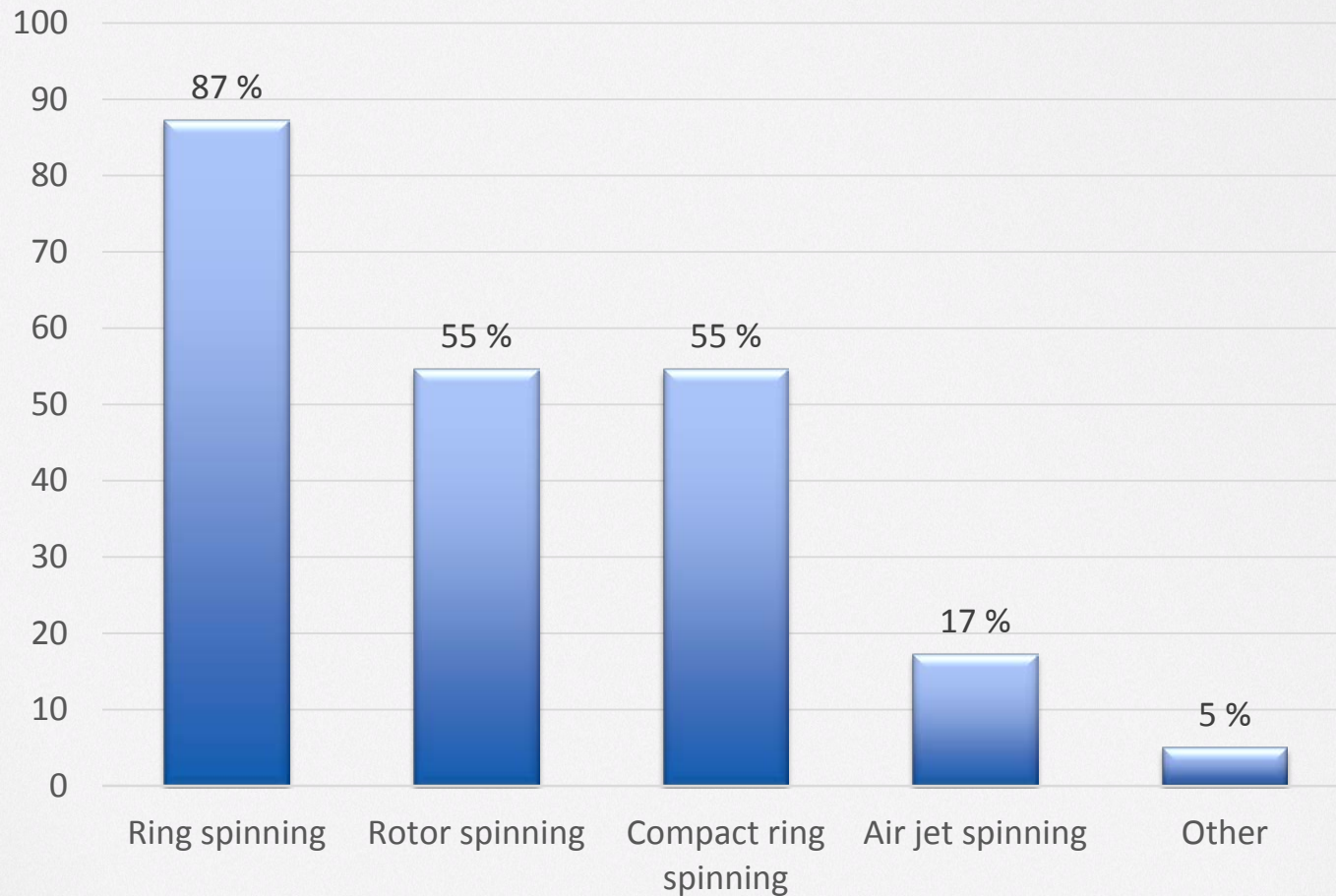
- More than 2000 spinning mills and related industry worldwide were contacted
- More than 170 respondents
- 28 different countries
  - India 42
  - China 25
  - Europe 21
  - Turkey 14
  - Brazil 11
  - Korea 10
  - Pakistan 10
  - USA 8
  - ...



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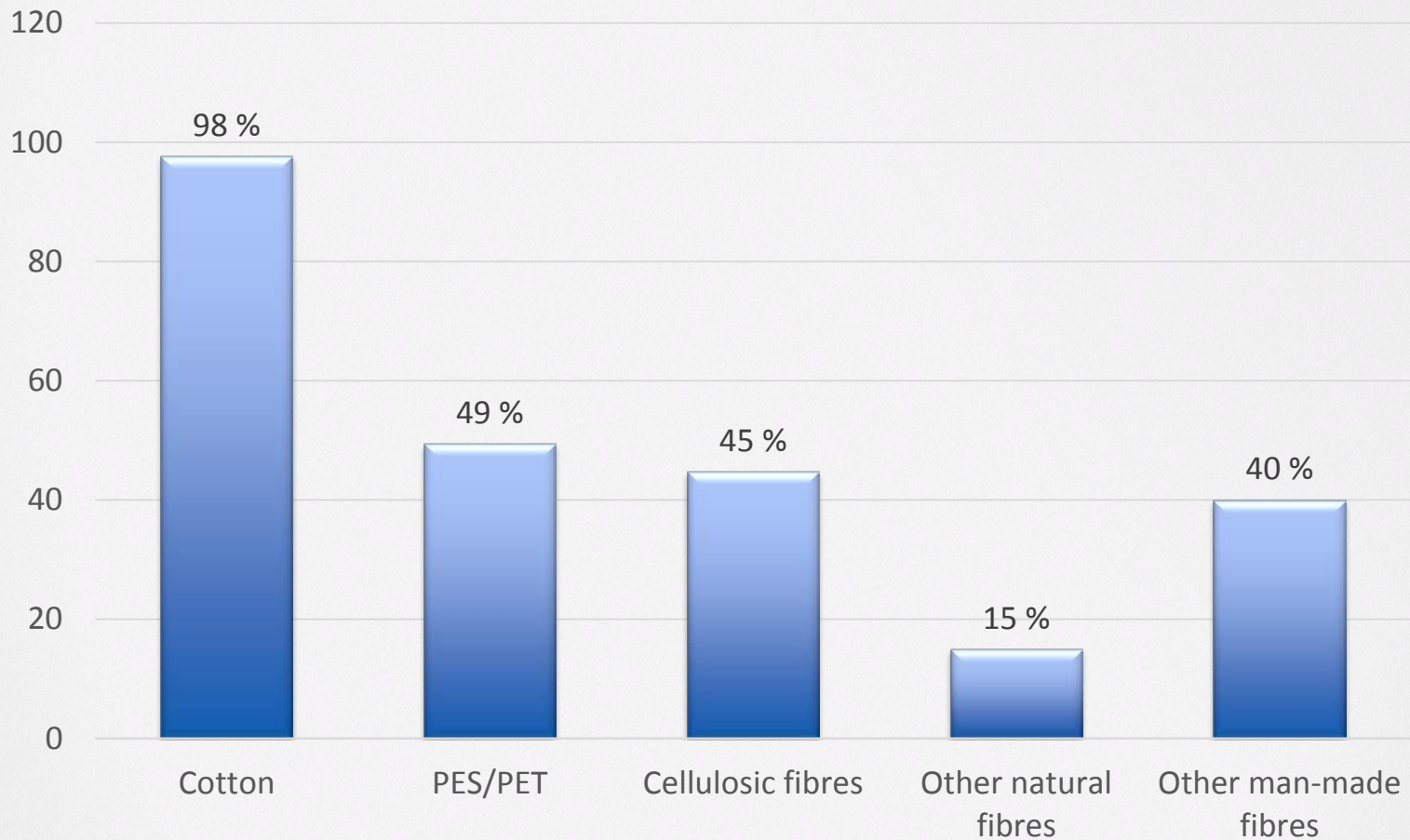


## Section A: Spinning technology used by the respondents



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## Section A: Processed fibre materials

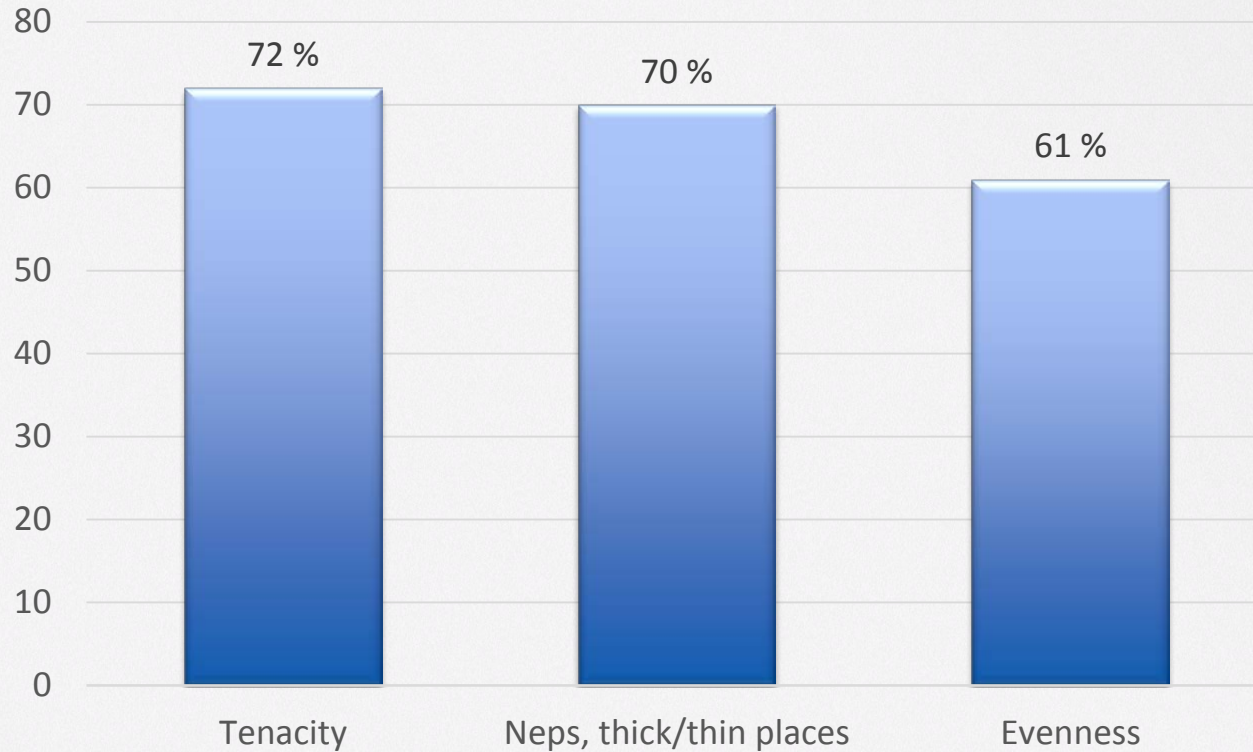




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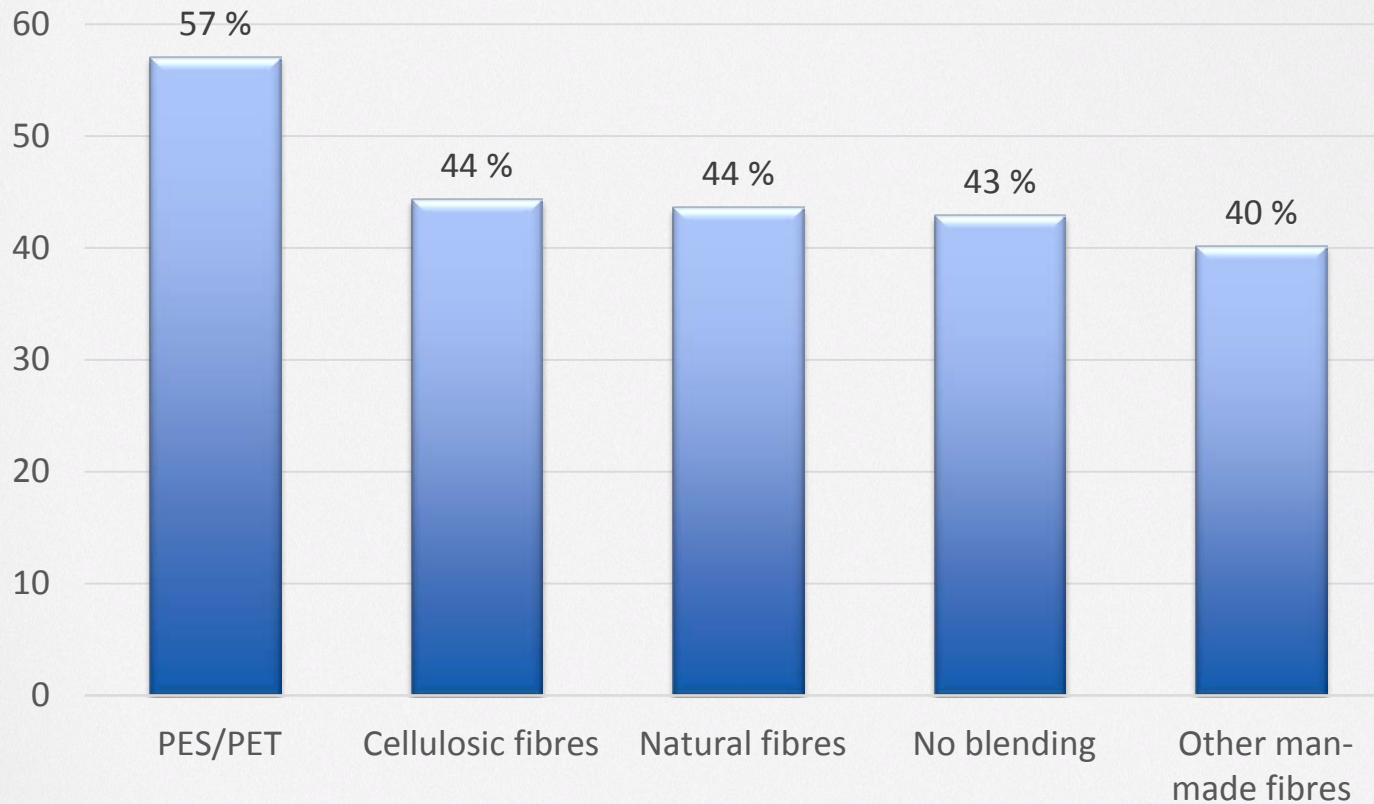


## Section B: Most important properties of a yarn



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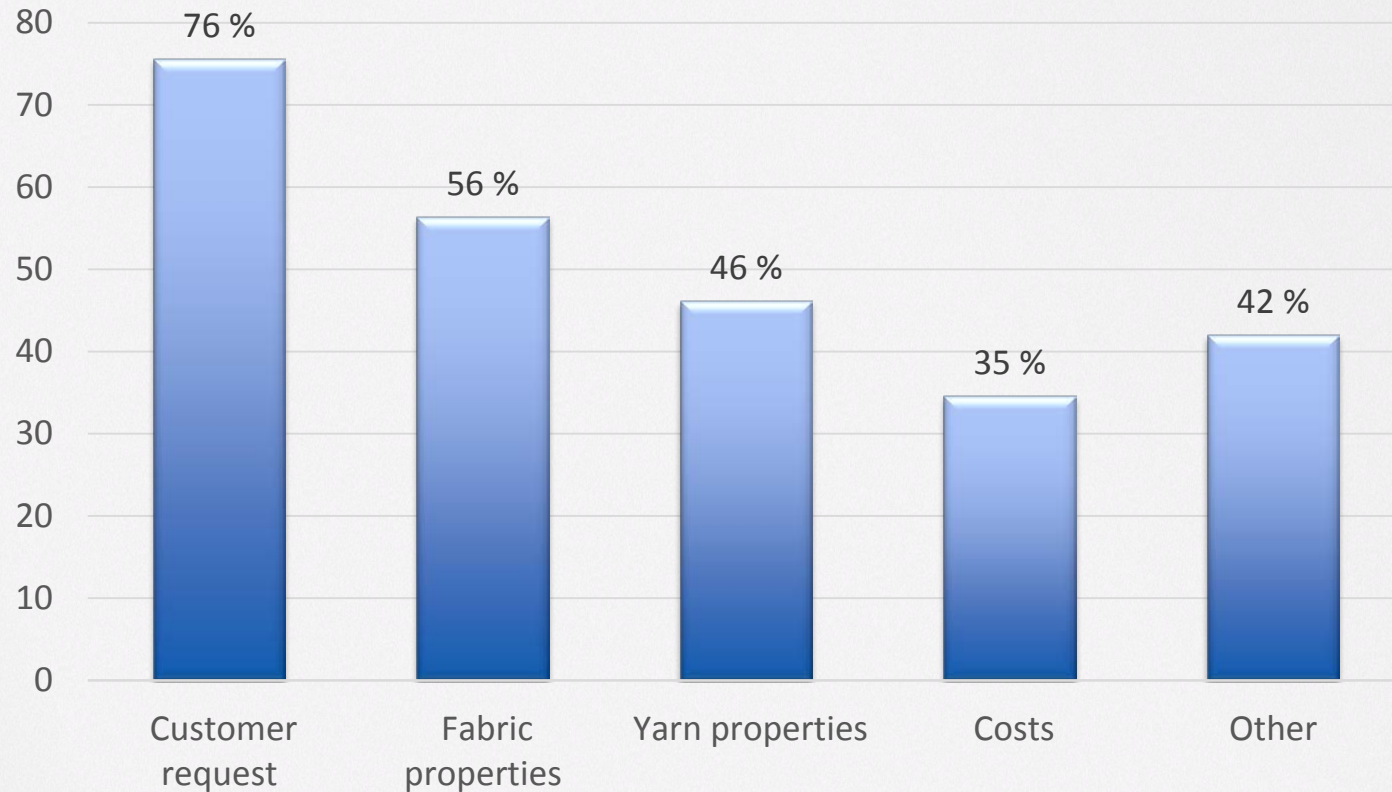
## Section B: Fibres which are blended with cotton





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## Section B: Reasons for blending cotton fibres



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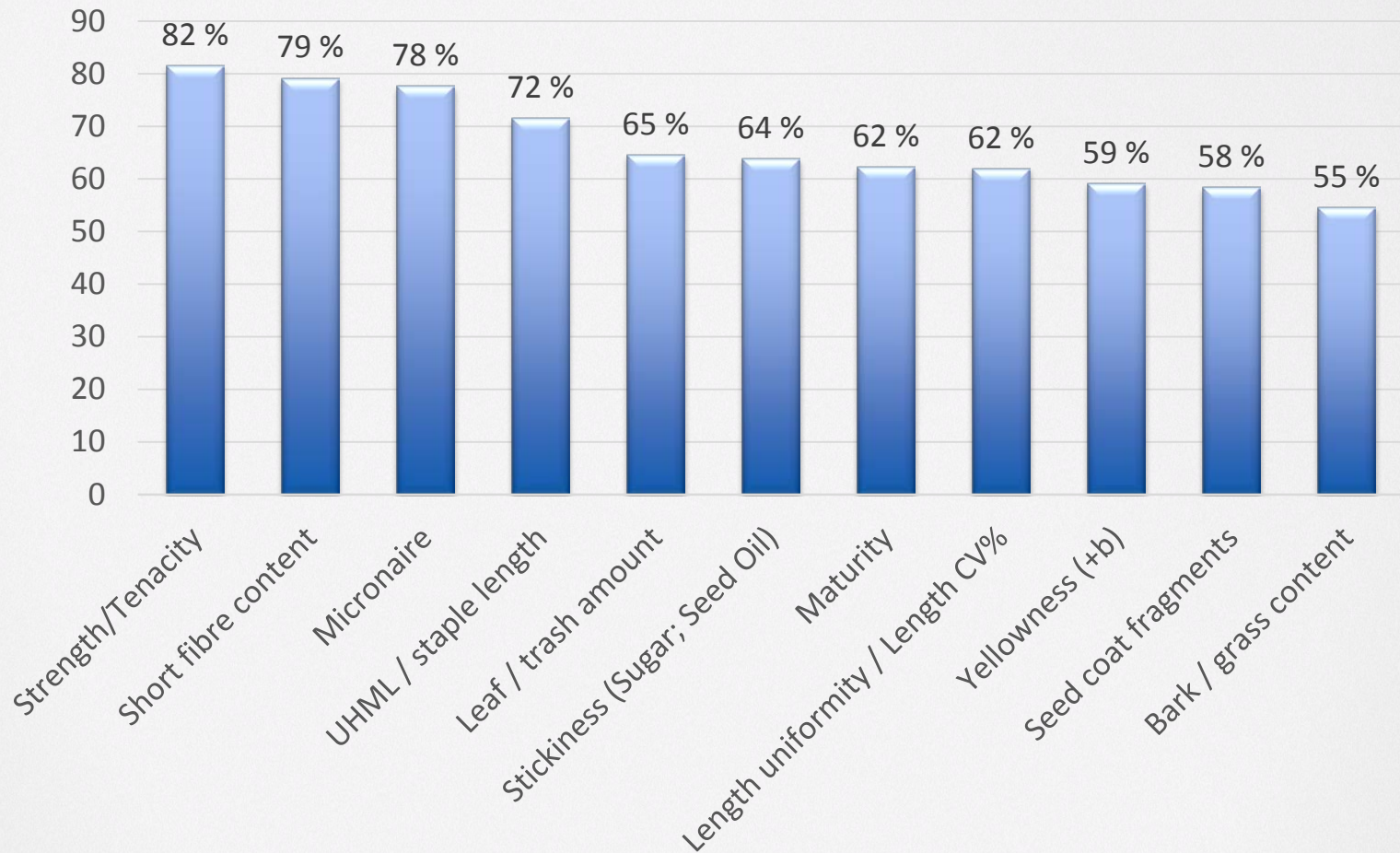


- Fineness related properties
  - Micronaire
  - Fineness
  - Maturity
- Length related properties
  - UHML
  - Mean length
  - Uniformity / Length CV%
  - Short fibre content / Short fibre index
- Strength related properties
  - Strength/Tenacity
  - Elongation
- Colour
  - Reflectance (Rd)
  - Yellowness (+b)
  - UV stability
- Trash
  - Leaf / trash amount
  - Leaf / trash size
  - Bark / grass content
- Other contaminants
  - Stickiness
  - Twists /knots
  - Seed coat fragments
  - Dust
  - Odour
  - Fungal infestation
- Others



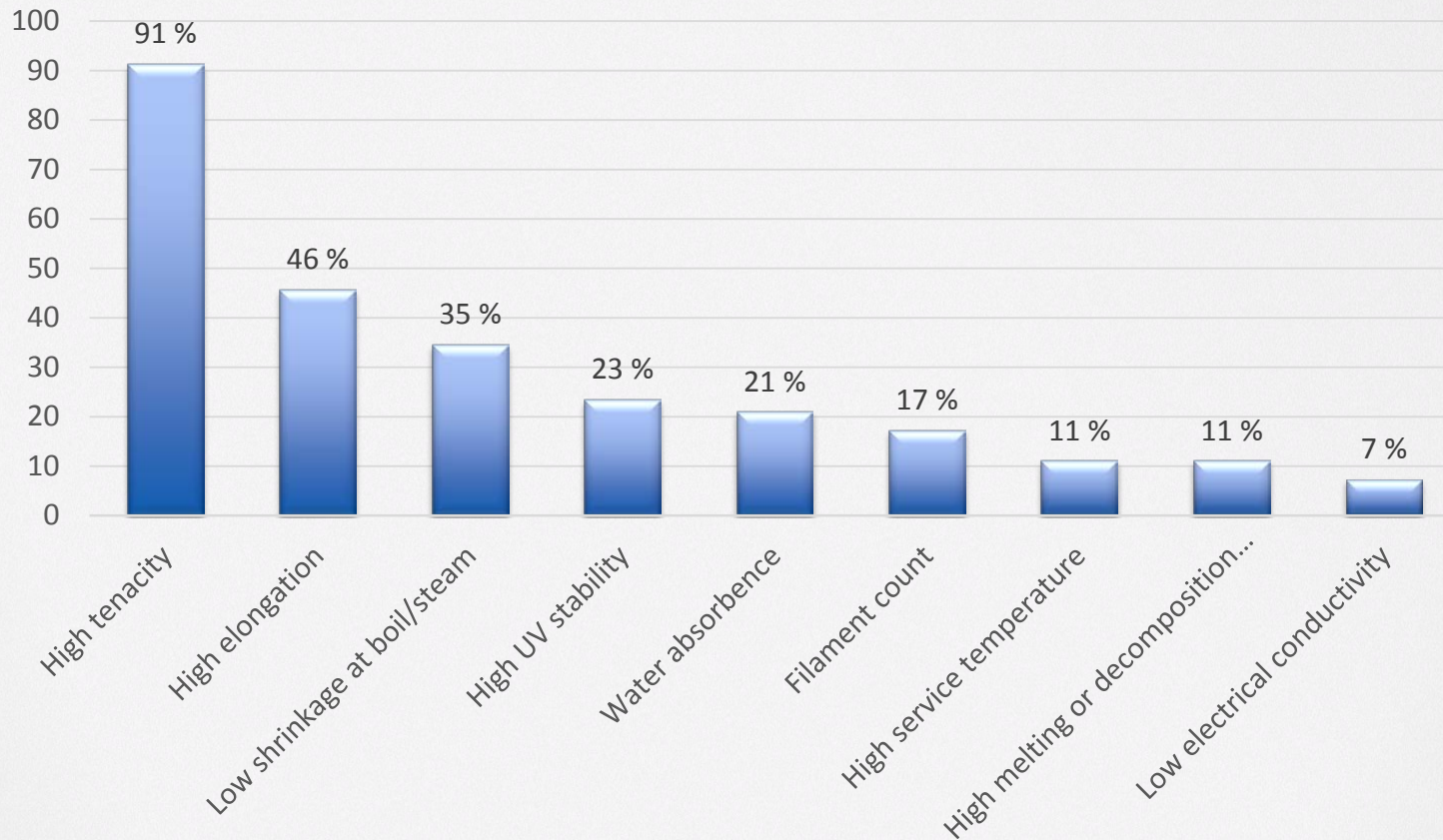
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## Section B: Defects or deficiencies of cotton fibres that affect yarn properties



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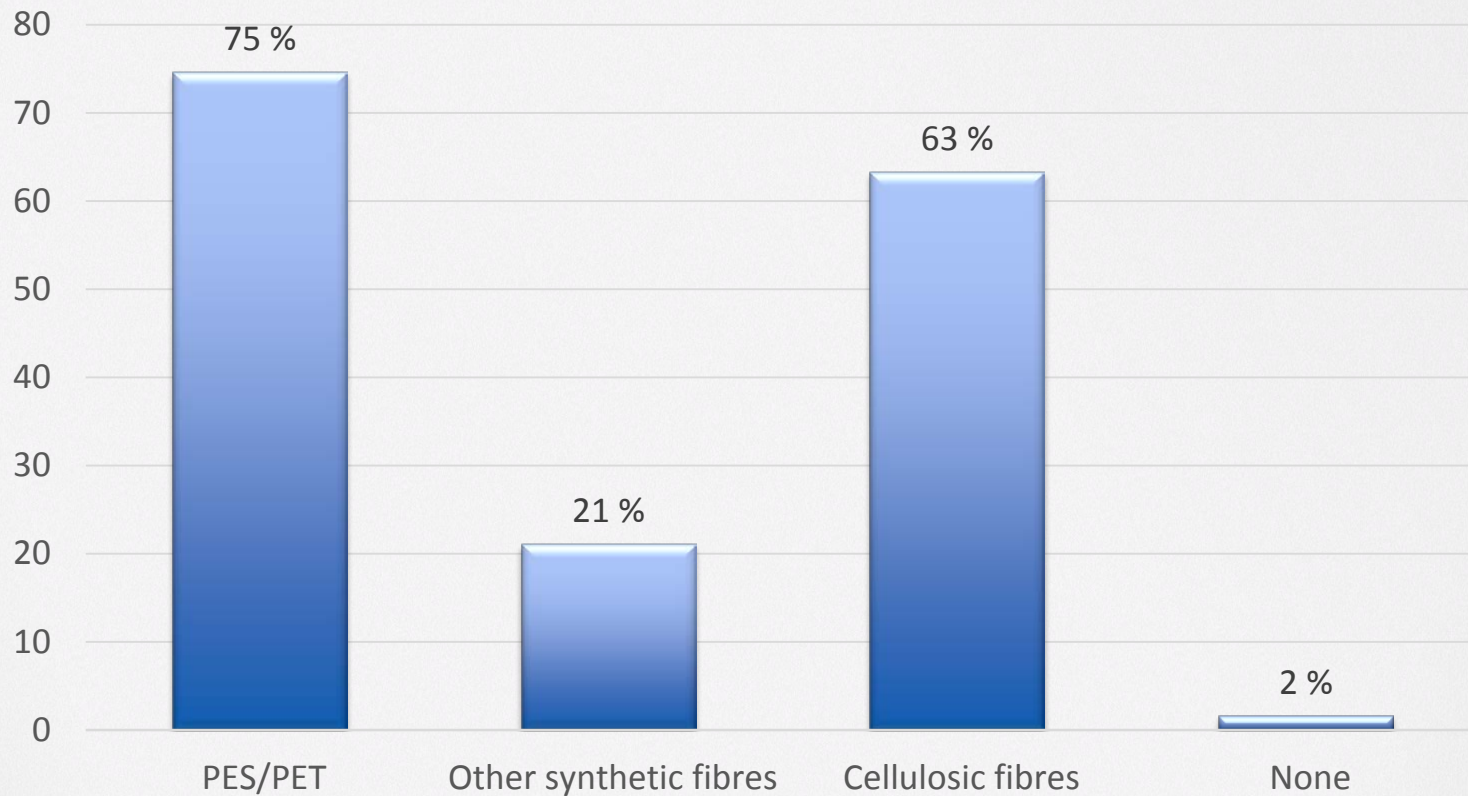
## Section B: Top properties of man-made fibres





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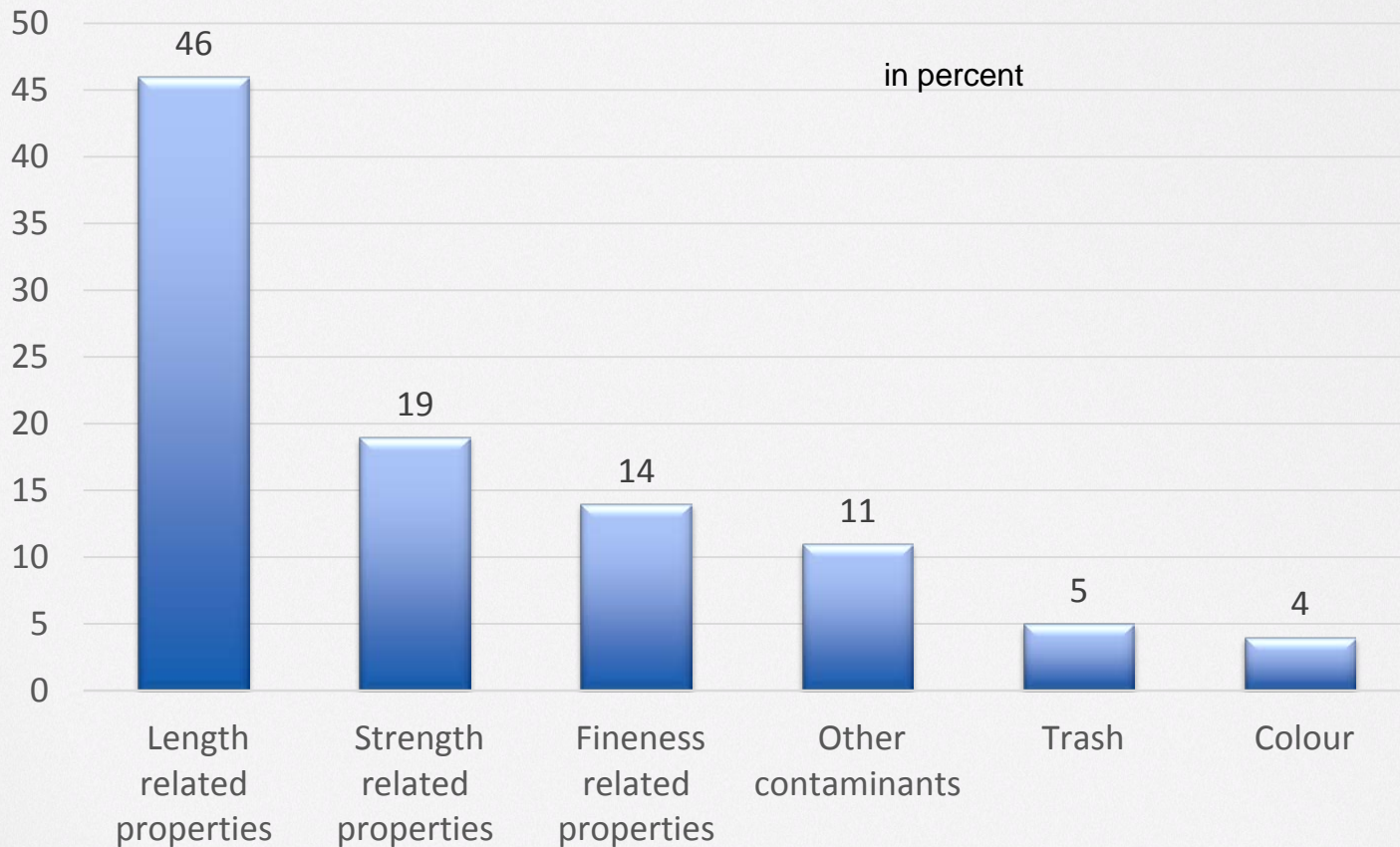
Section B: Man-made fibres which are seen in direct competition with cotton



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Section B: If respondents could drastically improve one single fibre characteristic of cotton

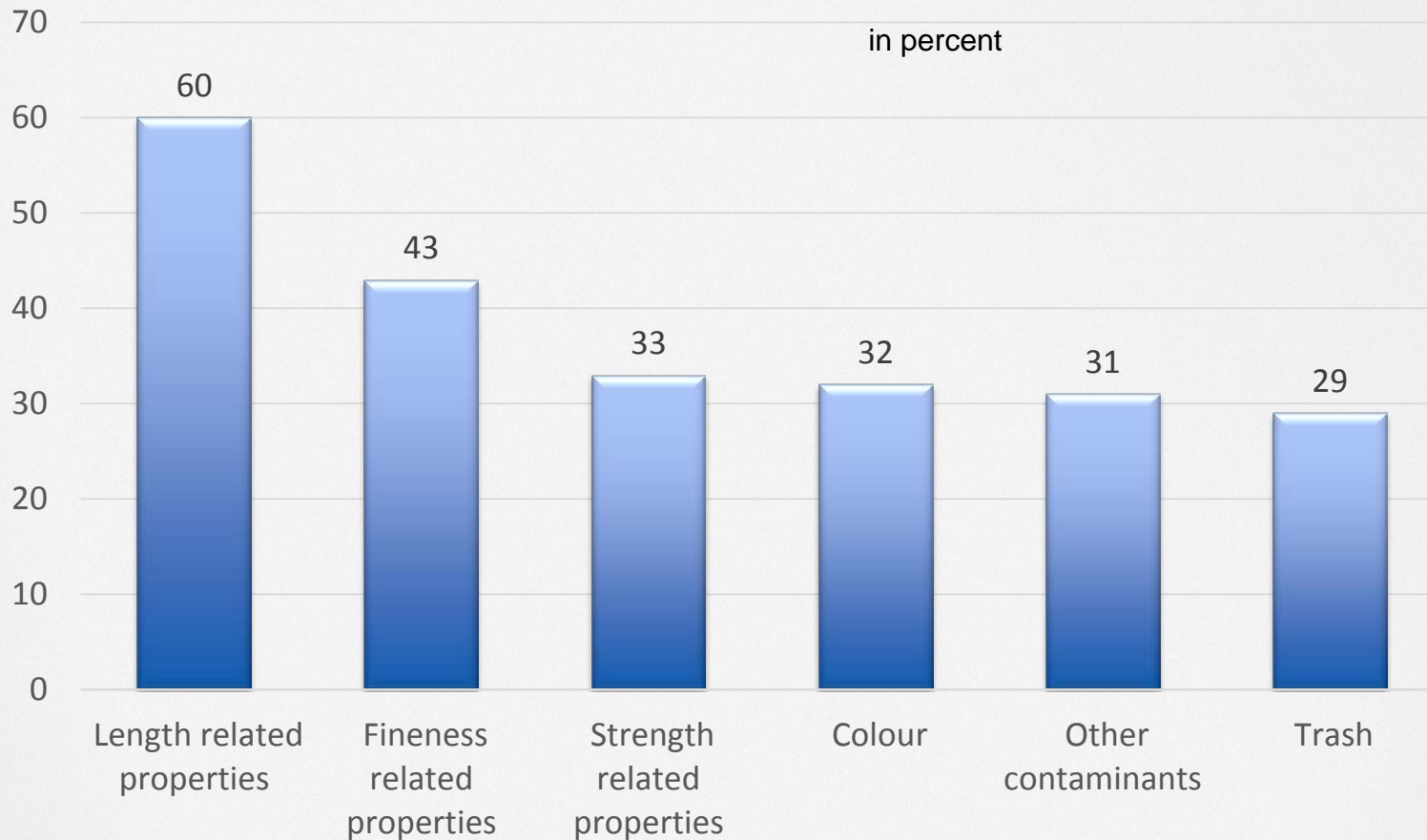




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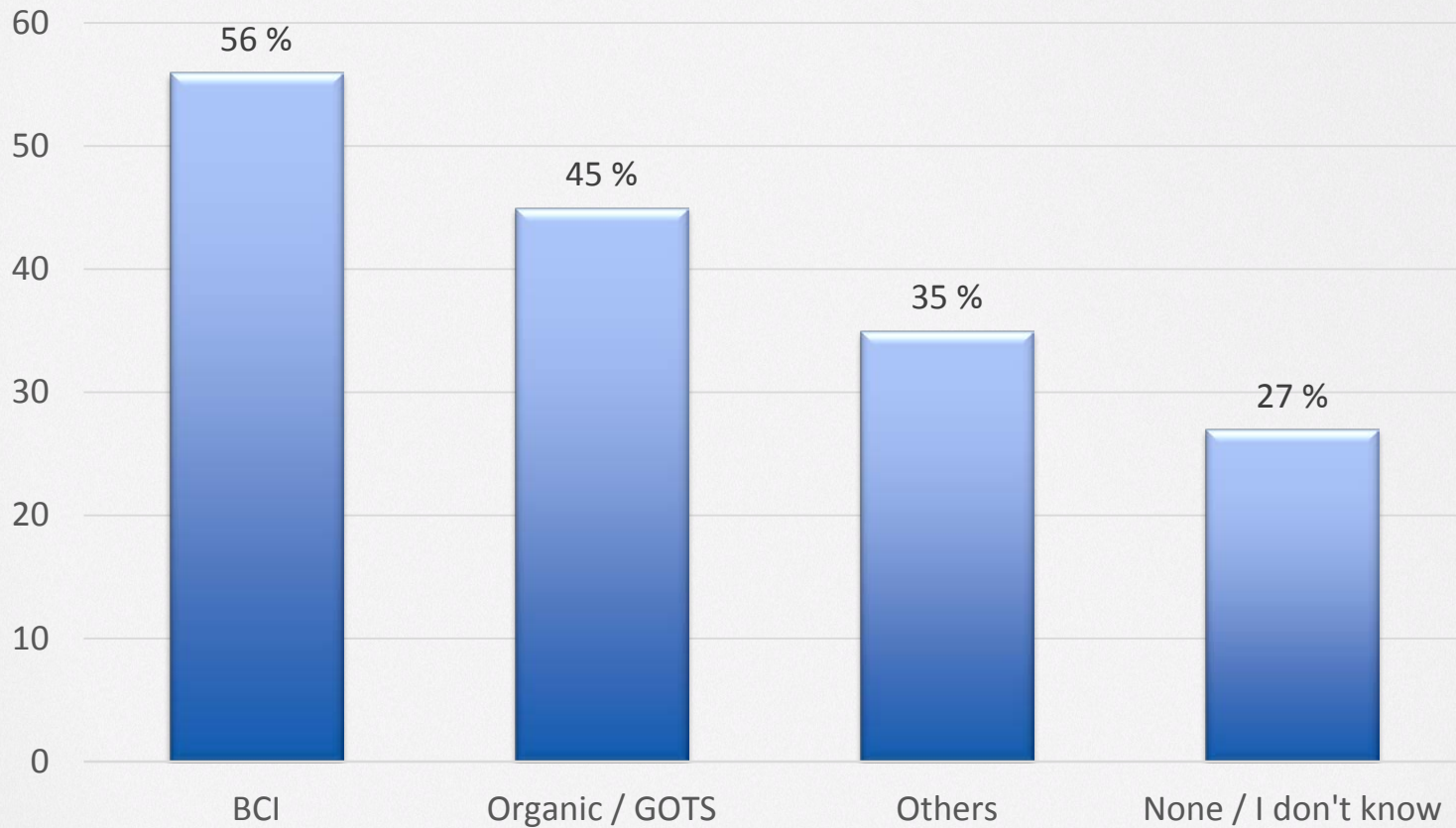


## Section B: Most important properties of cotton for non-spinning companies



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## Section C: Cotton identity programs used by the respondents

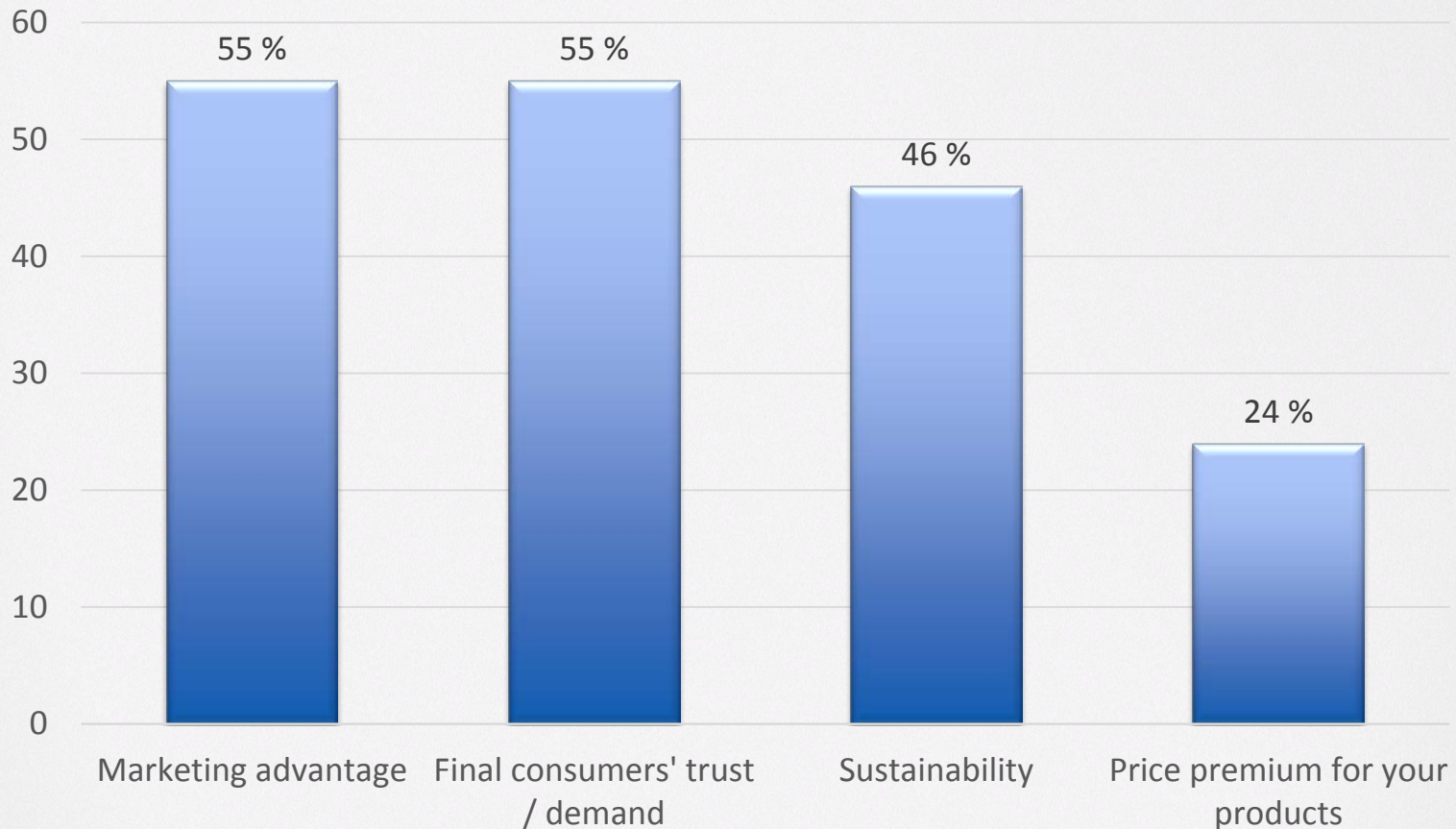




# Bremen Aachen Survey



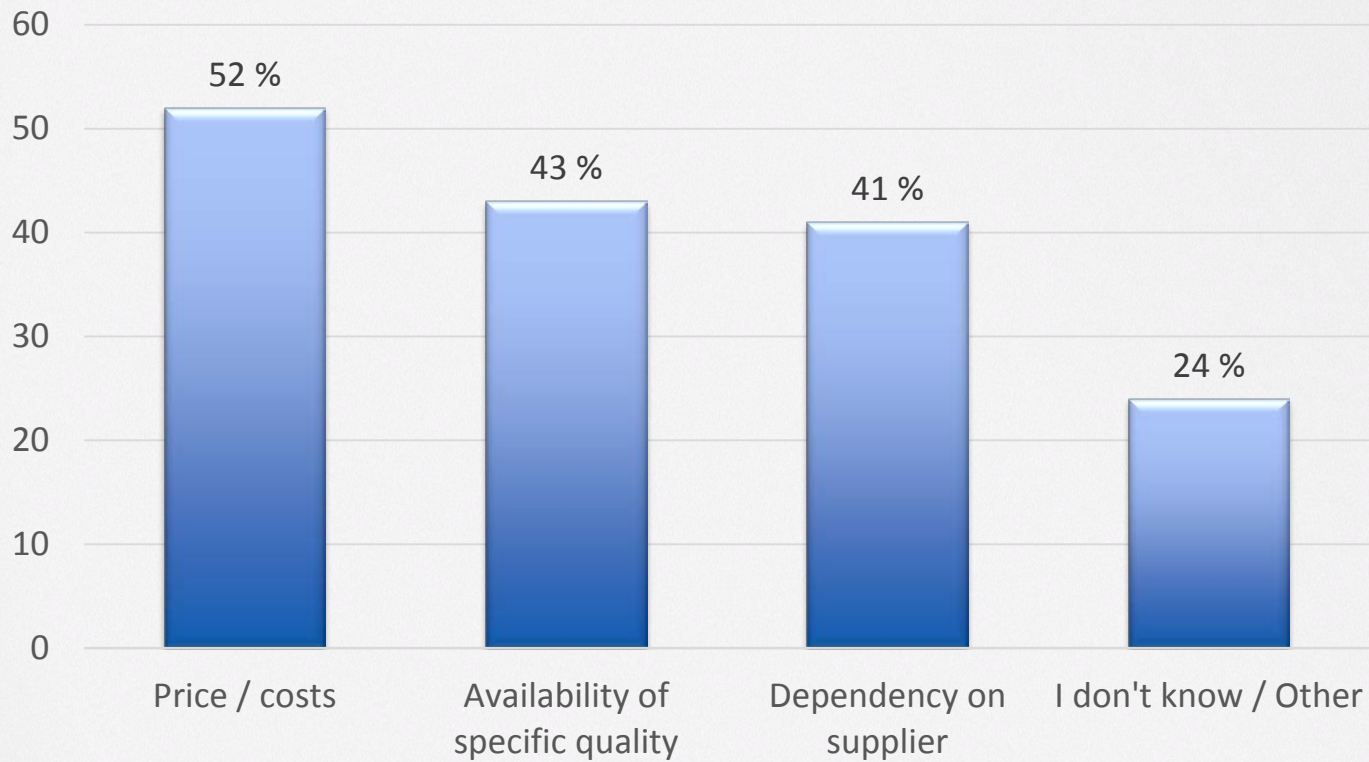
## Section C: Benefits of cotton identity programs



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## Section C: Deficiencies of cotton identity programs



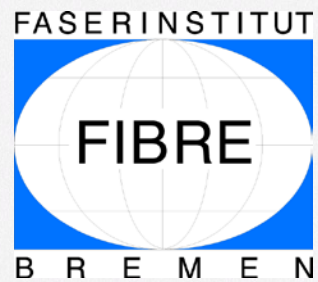


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- Although based on a large amount and worldwide distribution of participating spinning mills, this study is only a snap-shot of the current situation.
- It is planned to repeat the survey periodically in order to
  - Identify trends in cotton property demands
  - Provide information to allow adjustments research directions and policies
  - Prepare cotton for the future demands
  - Strengthen the competitiveness of cotton
- Please support our future surveys by
  - Your continuous participation
  - Your recommendations for improvements



# THANK YOU

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