New Categories of Agricultural Tyres

‘IF’ : Improved Flexion Tyre
‘VF’ : Very High Flexion Tyre

and UN/ECE Regulation No.106
Objectives of these concepts

Cover the user’s needs

• Work at low pressure in the fields to reduce the soil compaction

• Run on the road without adjusting the inflation pressure depending on the speed
More resistant carcasses than corresponding standard tyres

- operate at higher deflections
- run without any adjustment of the inflation pressure in the field and on the road
‘IF’ : Improved Flexion Tyre
‘VF’ : Very High Flexion Tyre

Technical Challenges

• Endurance
• Wear Service Life
• Operating Temperature
• Road Handling
‘IF’ : Improved Flexion Tyre
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How does it work?
‘IF’ : Improved Flexion Tyre
‘VF’ : Very High Flexion Tyre

Load/pressure relationship

Load %

VF : + 40%
IF : + 20%

Inflation Pressure kPa
‘IF’ : Improved Flexion Tyre
‘VF’ : Very High Flexion Tyre

Benefits

• Low soil compaction
• Improved crop yield productivity
• Improved wet and dry traction
• Time and fuel saving
• Improved ride comfort
• Safety through road handling
‘IF’ and ‘VF’ Tyres
Proposed amendment of UN/ECE Regulation 106
(Document Trans/WP29/GRRF/2005/15/Rev1)

• Definitions ‘IF’ and ‘VF’ tyres
• Marking:
  ‘IF’ or ‘VF’ before the nominal section width
  for example: IF 710/70 R 42 or VF 710/70 R 42
• No variation of load depending on the speed
=> Table in annex 7 is not applicable
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and UN/ECE Regulation 106

Thank for your attention!

Do you have any questions?