ASP- Additional Sidewall Protection

Presentation for GRRF
62nd session
25–28 September 2007
Definition ASP

• "Additional Sidewall Protection (ASP)" is an additional protective rubber layer applied to one sidewall only of the casing for improving resistance against sidewall abrasion.

• Purpose of ASP:

  …”enhancing safety and durability of tyres in urban use”….“to provide additional abrasion protection of the sidewall in aggressive urban usage”
How does it work?

• Casing sidewall is inspected and buffed

PRECURE:
  – Cushion is applied
  – Pre-cured ASP is applied

MOLDCURE:
  - Un-vulcanized wear rubber applied

ASP- wearing rubber
Cushion-binding rubber
Application cushion
Application of ASP
ASP ready for vulcanization
The “issue”

- For tyres with overall max section width limited to +2% the application of ASP might exceed max overall section width of ECE 109:

  315/80R22.5
  315/70R22.5
  13R22.5

- The BIPAVER proposal only deal with tyres exceeding max ECE-R109 Overall section width and with a section width exceeding 305mm.
Final Product

- Total section width is Max 8 mm wider than max section width of a new original tire permitted by Reg. 54.

Additional thickness max 8mm

BIPAVER proposal:
Max Overall width up to max 8mm
Example: 315/80R22.5
Amended ECE 109: Max R54 + 1,5 % = 323 mm

Max R54: 318 mm
R109: +1,5% = 323 mm
Example: 315/80R22.5
Amended ECE 109: Max R54 + 1,5 % = 323 mm
ASP only on one side permissible, when tyre is exceeding 323 mm!

Facing inwards:
The word ASP
No additional reduction of dual spacing vs. amended ECE 109

Max R54: 318 mm
R109: +1,5% = 323 mm
ASP: Max R54 + 8 mm
ASP: Max 326 mm

Facing outwards:
The word ASP
Marking OUTSIDE