

IWG for Wet Grip on Worn Tyres (WGWT)

Status report to 75th GRBP (February 2022)

Background and roles

- Roles

- Chair: France
- Co-chair: European Commission
- Secretary: ETRTO

- IWG WGWT webpage:

<https://wiki.unece.org/pages/viewpage.action?pageId=80380967>

Meetings and participants

- Meetings:

- 29th WGWT: 9 November (Webconference)
- 30th WGWT: 29 November (Webconference)
- 31st WGWT: 15 December (Webconference)
- 32nd WGWT: 12 January (Webconference)
- 33rd WGWT: 19 January (Webconference)
- 34th WGWT: 27 January (Webconference)
- 35th WGWT: 3 February (Webconference)

- Participants:

- CP: China, European Commission, France, Germany, Netherlands, Japan, Spain.
- NGOs: ETRTO, ITMA, JATMA, OICA, ITTAC, USTMA

Work progress since last GRBP

- IWG work
 - Agreement of the thresholds for wet adhesion performance for tyres in worn state
 - Agreement on the test conditions
- Two subgroups:
 - Post processing
 - Assess IWG particular request: market share of potential cluster, ...
 - Drafting
 - Informal document GRBP-75-25 to complete WP29/ 2022/11 for adoption at 75th GRBP session and consideration at June WP29

Work progress since last GRBP

- Items still open
 - Work on the clusters (peculiar tyres) definition and corresponding thresholds
 - Additional assessment requested by the IWG
 - Improve the stability of the reference tyre (mould SRTT worn)
 - Improve the test precision
 - Foreseen test campaigns
 - April – June 2022: mould SRTT worn assessment
 - 2023: additional test campaign for improvement of test precision
- Updated ToR as per GRBP-75-28 accordingly

Two step approach for C1 tyres in worn state

- Some peculiar tyres need to be addressed in a second step:
 - Market share
 - Definition
 - Thresholds

R117.03			
Category			WGI in Worn state
Normal			$\geq 0.88^*$
Snow (M+S)	3PMSF SS > Q		≥ 0.80
		Ice	≥ 0.70
	3PMSF SS \leq Q		≥ 0.70
		Ice	≥ 0.70
Special Use			Not defined

*Normal tyre with aspect ratio ≤ 40 and Speed Symbol Y or ZR(Y): **threshold $\geq 0,80$** --> to be further defined in R117.04

GRBP 75th session

R117.04				
Category			WGI in Worn state	
Normal			≥ 0.88	0.88 to be considered as minimum
	UHP and/or Legal Race		\geq (tbd)	0.80 to be considered as minimum
Snow (M+S)			≥ 0.88	0.88 to be considered as minimum
	All Terrain (*)		\geq (tbd)	0.80 to be considered as minimum
	3PMSF SS > Q		≥ 0.80	
		ICE		≥ 0.70
3PMSF SS \leq Q			≥ 0.70	
	ICE		≥ 0.70	
Special Use			Not defined	

* cluster position to be defined

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GRBP 76th session

Next steps

- Finalise the 2nd step approach for C1 thresholds
- Introduce the work on mould SRTT worn as suppl. 1 to 03 series for adoption at 76th GRBP in September 2022
- Propose C2 and C3 concept in a new 04 series of amendments to R117 for adoption at 76th GRBP in September 2022
- Improve the test precision thanks to the additional test campaign
 - Informal document at 78th GRBP session in September 2023
 - Working document for adoption at 79th GRBP session in January 2024

New timeline

	2022												2023												2024										
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J					
informal document supplementing WP29 for Feb. 2022 GRBP		■																																	
WP29 adoption working document						■					■																								
mould SRTT worn assessment			■	■	■	■																													
working document as supplement 1 for Sept. 2022 GRBP						■			■																										
working document as supplement 1 for March 2023 WP29															■																				
test precision improvement: test campaign													■	■	■	■	■	■	■																
informal & working documents for Sept. 2023 & Jan. 2024 GRBP																					■	■													
step 2 C1 (clusters definition and thresholds)						■			■						■						■														
working document for 04 series (C2, C3) for Sept. 2022 GRBP						■			■						■						■														

New 03 series: C1 tyres in worn state

C1 tyres in worn state – second step (clusters)

04 series: C2-C3 tyres in worn state

Update: mould SRTT worn

Update: test precision improvement

- document submission timeline
- document adoption timeline GRBP
- document adoption timeline WP29
- entry into force
- mould SRTTworn assessment
- additional test campaign (test precision)

Thank you for your attention!