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**AUTOKLUB  
ČESKÉ REPUBLIKY**

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**test  
results**

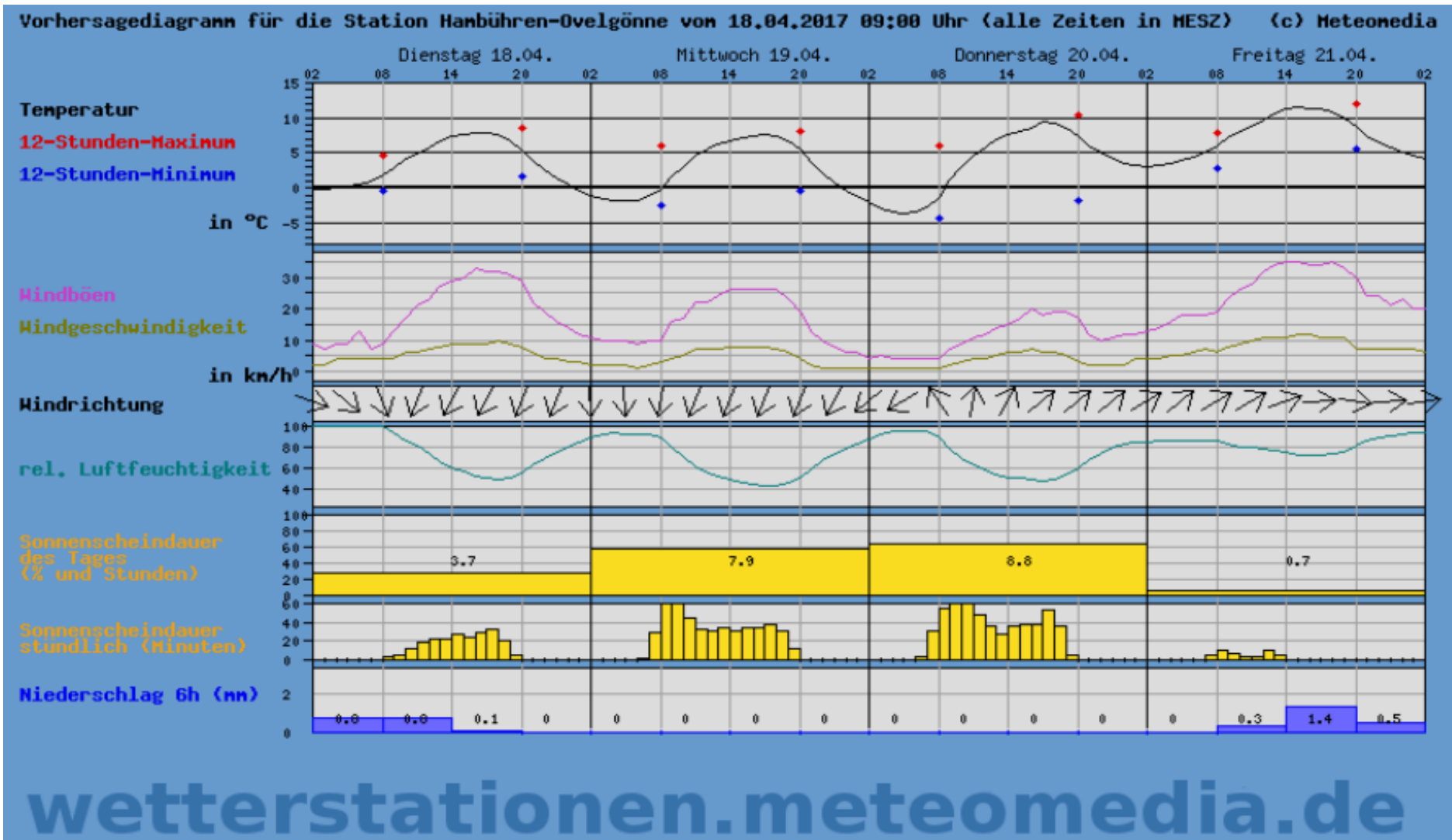
**Winter Tire Test**

**215/65 R 16**

**Contidrom**

**18.04. - 20.04.2017**

# Weather forecast




# Schedule for Autoklub Tire Test 04.2017



		<b>tire set a</b>	<b>obj.</b>	<b>tire set b</b>	<b>subj.</b>	<b>add. tires (2)</b>
cw15		pass by noise				Rolling Resistance
Tuesday	18.04.2017	aquapl.-longitudinal				
Wednesday	19.04.2017	wet braking		wet handling		
Thursday	20.04.2017	dry braking		comfort dry handling		
Friday	21.04.2017	wet circle aquapl.-lateral				

Current No.		1	2	3	4
<b>Sidewall Data</b>					
<b>Brand</b>		Continental	Bridgestone	Dunlop	Hankook
<b>Trade Designation</b>		WinterContact TS 850P	Blizzak LM-80 EVO	Winter Sport 5	i*cept RS2 W452
<b>Summer/ Winter/ All Season</b>	[S/W/A]	W	W	W	W
<b>Tire Size</b>		215/65 R 16	215/65 R 16	215/65 R 16	215/65 R 16
<b>Load-Index (Single Point)</b>		98	98	98	98
<b>Speed Symbol (Single Point)</b>		H	H	H	H
<b>Plant-/ Size-/ Type-Code</b>		AF6V D3UM	6CH BR4P	ND6V JBMR	2XT3 FWH
<b>Date Code (DOT)</b>		3816	1815	2316	4116
<b>RR EU Label</b>		C	E	C	E
<b>Wet EU Label</b>		C	C	B	C
<b>Noise EU Label</b>	[x/db]	2   72	2   71	2   70	2   72
<b>Production Country</b>		Portugal	Spain	Germany	Hungary
<b>Treadwear</b>		-	-	-	-
<b>Traction</b>		-	-	-	-
<b>Temperature</b>		-	-	-	-
<b>Tread Plies</b>		1 Polyester + 2 Steel + 2 Polyamide	1 Polyester + 2 Steel + 1 Nylon	1 Polyester + 2 Steel + 2 Polyamide	2 Steel + 2 Polyester + 1 Nylon
<b>Sidewall Plies</b>		1 Polyester	1 Polyester	1 Polyester	2 Polyester
<b>DOT Sign</b>	[Y/N]	N	N	N	N
<b>Rotational Tread</b>	[Y/N]	N	Y	Y	Y
<b>Asymmetric Tread</b>	[Y/N]	Y	N	N	N
<b>Snowflake Symbol</b>	[Y/N]	Y	Y	Y	Y
<b>M+S Symbol</b>	[Y/N]	Y	Y	Y	Y
<b>Other Sidewall Lettering (e-No. for ZR)</b>					
<b>Remarks (intern Set No.,...)</b>		6.5Jx16 ET33    6.5Jx16 ET46			
<b>Measurements</b>					
<b>Hardness new @ °C</b>	15 [ShA]	67	70	61	73
<b>Hardness used @ °C</b>	1/15 [ShA]	63	67	67	64
<b>Pattern depth center/shoulder</b>	[mm]	8,3    7,9	7,9    7,6	8,8    8,4	8,0    7,7
<b>Weight</b>	[g]	10,44	9,65	8,96	11,28
<b>Picture</b>					
<b>Pattern</b>	[Y/N]				

Current No.		5	6	7	8
<b>Sidewall Data</b>					
<b>Brand</b>		<b>Michelin</b>	<b>Nokian</b>	<b>Pirelli</b>	<b>Yokohama</b>
<b>Trade Designation</b>		<b>Cross Climate</b>	<b>WR D4</b>	<b>Winter Sottozero 3</b>	<b>W.drive V905</b>
<b>Summer/ Winter/ All Season</b> [S/W/A]		A	W	W	W
<b>Tire Size</b>		215/65 R 16	215/65 R 16	215/65 R 16	215/65 R 16
<b>Load-Index (Single Point)</b>		102	102	98	98
<b>Speed Symbol (Single Point)</b>		V	H	H	H
<b>Plant-/ Size-/ Type-Code</b>		HCOD 047X	60 BB	XTLK R509	4UHB - YYY
<b>Date Code (DOT)</b>		3416	3016	3916	3216
<b>RR EU Label</b>		B	B	C	E
<b>Wet EU Label</b>		A	A	B	C
<b>Noise EU Label</b> [x/db]		1   69	1   68	2   72	2   72
<b>Production Country</b>		Spain	Russia	Germany	In the Philippines
<b>Treadwear</b>		-	420	-	-
<b>Traction</b>		-	A	-	-
<b>Temperature</b>		-	A	-	-
<b>Tread Plies</b>		-	2 Polyester + 2 Steel + 1 Polyamide	1 Rayon + 2 Steel + 2 Polyamide	1 Polyester + 2 Steel + 1 Polyamide
<b>Sidewall Plies</b>		-	2 Polyester	1 Rayon	1 Polyester
<b>DOT Sign</b> [Y/N]		N	Y	N	N
<b>Rotational Tread</b> [Y/N]		Y	Y	Y	Y
<b>Asymmetric Tread</b> [Y/N]		N	N	N	N
<b>Snowflake Symbol</b> [Y/N]		Y	Y	Y	Y
<b>M+S Symbol</b> [Y/N]		Y	Y	Y	Y
<b>Other Sidewall Lettering (e-No. for ZR)</b>					
<b>Remarks (intern Set No.,...)</b>					
<b>Measurements</b>					
<b>Hardness new @ °C</b> 15 [ShA]		66	65	69 - 70	63
<b>Hardness used @ °C</b> 1/15 [ShA]		62	60	66	63
<b>Pattern depth center/shoulder</b> [mm]		6,9	8,1	7,3	7,8
		6,6	7,2	7,1	7,2
<b>Weight</b> [g]		9,88	10,41	11,19	10,73
<b>Picture</b>					
<b>Pattern</b> [Y/N]					



**AUTOKLUB  
ČESKÉ REPUBLIKY**

# Autozurnal winter tire test 2017

## Tirelist 215/65 R 16

### subjective

VW Tiguan

2,2 front // 2,2 rear




- 1 Continental**  
WinterContact TS 850P
- 2 Bridgestone**  
Blizzak LM-80 EVO
- 3 Dunlop**  
Winter Sport 5
- 4 Hankook**  
i`cept RS2 W452
- 5 Michelin**  
Cross Climate
- 6 Nokian**  
WR D4
- 7 Pirelli**  
Winter Sotozero 3
- 8 Yokohama**  
W.drive V905

### objective

VW Tiguan

2,0 front // 2,0 rear

- 1 Continental**  
WinterContact TS 850P
- 2 Bridgestone**  
Blizzak LM-80 EVO
- 3 Dunlop**  
Winter Sport 5
- 4 Hankook**  
i`cept RS2 W452
- 5 Michelin**  
Cross Climate
- 6 Nokian**  
WR D4
- 7 Pirelli**  
Winter Sotozero 3
- 8 Yokohama**  
W.drive V905

magazine: Autoklub ČR		rozměr: 215/65 R 16				vozidla: VW Tiguan			
 <b>AUTOKLUB ČESKÉ REPUBLIKY</b>		Continental WinterContact TS 850P	Bridgestone Blizzak LM-80 EVO	Dunlop Winter Sport 5	Hankook Icept RS2 W452	Michelin Cross Climate	Nokian WR D4	Pirelli Winter Sottozero 3	Yokohama W.drive V905
									
Set-No.		1	2	3	4	5	6	7	8
Shore-hardness	100/18°C and -3°C used	64/61/63	69/65/67	65/63/67	68/63/64	66/60/62	65/59/60	68/62/66	63/60/63
DOT		3816	1815	2316	4116	3416	3016	3916	3216
<b>Celkové hodnocení</b>	weighting	<b>100,0</b>	<b>96,2</b>	<b>99,9</b>	<b>98,0</b>	<b>98,4</b>	<b>99,6</b>	<b>96,0</b>	<b>98,4</b>
<b>MOKRÝ POVRH</b>	<b>33%</b>	<b>100,0</b>	<b>89,4</b>	<b>99,7</b>	<b>96,5</b>	<b>94,3</b>	<b>97,3</b>	<b>91,9</b>	<b>97,1</b>
ABS brzdění na asfaltu	30%	100,0	79,5	97,2	88,8	94,4	91,7	87,8	94,3
Aquaplaning-podélný (pohon přední osa)	20%	100,0	94,3	96,5	101,1	94,8	98,8	91,9	97,5
Aquaplaning-příčný (65-95 km/h)	10%	100,0	99,7	121,4	113,8	75,5	107,6	85,0	102,3
Mokrý okruh	10%	100,0	91,3	98,2	95,4	98,7	96,9	96,0	96,4
Mokrý handling	30%	100,0	92,1	97,6	95,7	98,7	98,6	97,0	98,1
<i>Mokrý handling subjektivní hodnocení</i>		<b>1</b>	<b>8</b>	<b>5</b>	<b>7</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>6</b>
<b>SUCHÝ POVRCH</b>	<b>33%</b>	<b>100,0</b>	<b>99,0</b>	<b>101,1</b>	<b>98,8</b>	<b>105,9</b>	<b>100,0</b>	<b>102,0</b>	<b>100,1</b>
ABS brzdění na asfaltu	35%	100,0	98,1	101,7	103,0	113,7	101,2	107,4	103,4
Suchý handling	40%	100,0	99,2	98,8	99,4	100,3	100,1	100,2	99,0
<i>Suchý handling subjektivní hodnocení</i>		<b>1</b>	<b>4</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>8</b>
<i>Suchý handling subj. výkon</i>	5%	100,0	92,1	88,7	90,0	100,4	93,7	90,0	84,9
<i>Komfort (ride &amp; acoustic)</i>	2%	100,0	100,0	92,9	85,7	92,9	100,0	98,2	100,0
Hlučnost vnější 50 km/h	4%	100,0	101,7	100,3	102,1	101,8	100,6	100,5	102,9
Hlučnost vnější 80 km/h	4%	100,0	101,6	100,8	102,7	102,2	100,5	100,1	103,0
Valivý odpor	10%	100,0	102,4	116,5	85,6	109,9	98,3	98,7	98,3
<b>SNÍH</b>	<b>33%</b>	<b>100,0</b>	<b>100,3</b>	<b>98,8</b>	<b>98,9</b>	<b>95,0</b>	<b>101,4</b>	<b>94,2</b>	<b>98,2</b>
ABS brzdění na sněhu 40-0 km/h	30%	100,0	101,7	98,0	99,0	89,5	99,5	91,2	97,7
Trakce na sněhu 10-60%	15%	100,0	103,0	100,8	103,1	96,9	104,4	96,0	99,6
ASR akcelerace na sněhu 0-20 km/h	15%	100,0	101,5	100,4	99,4	98,2	104,3	91,7	99,1
Handling na sněhu do kopce	40%	100,0	97,9	98,1	97,0	97,1	100,6	96,6	97,7
<i>Handling na sněhu subjektivní hodnocení</i>		<b>1</b>	<b>6</b>	<b>3</b>	<b>5</b>	<b>7</b>	<b>2</b>	<b>8</b>	<b>4</b>

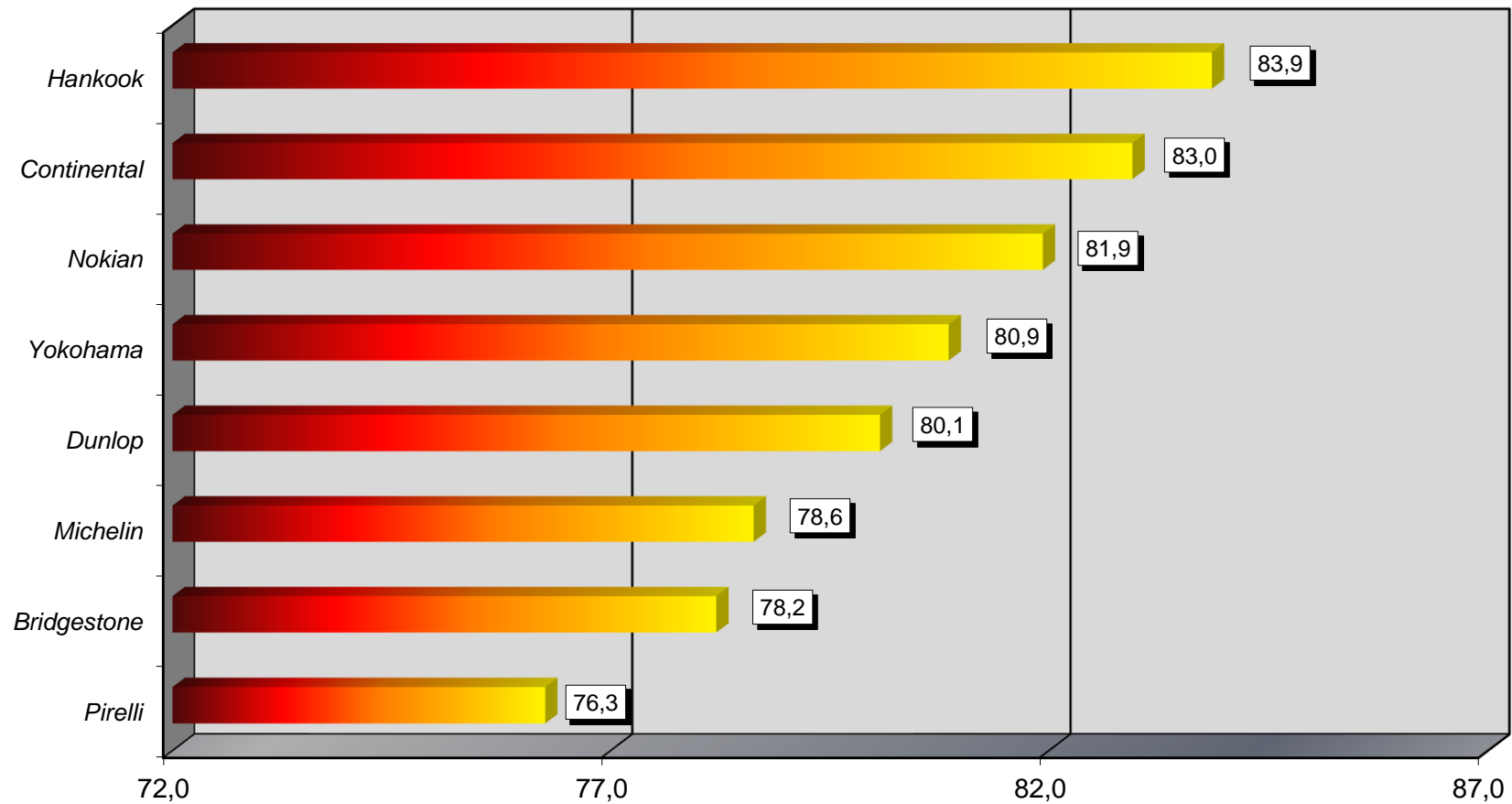
**Performance Legenda:**

velmi dobrý  
dobrý  
slabý  
špatný  
nedostatečný

Suchý handling, subjektivní vlastnosti včetně hodnocení

- přímá stabilita jízdy (25%)
- odezva na řízení (25%)
- změna jízdního pruhu (25%)
- chování na limitu přilnavosti - přenos bočních sil (25%)

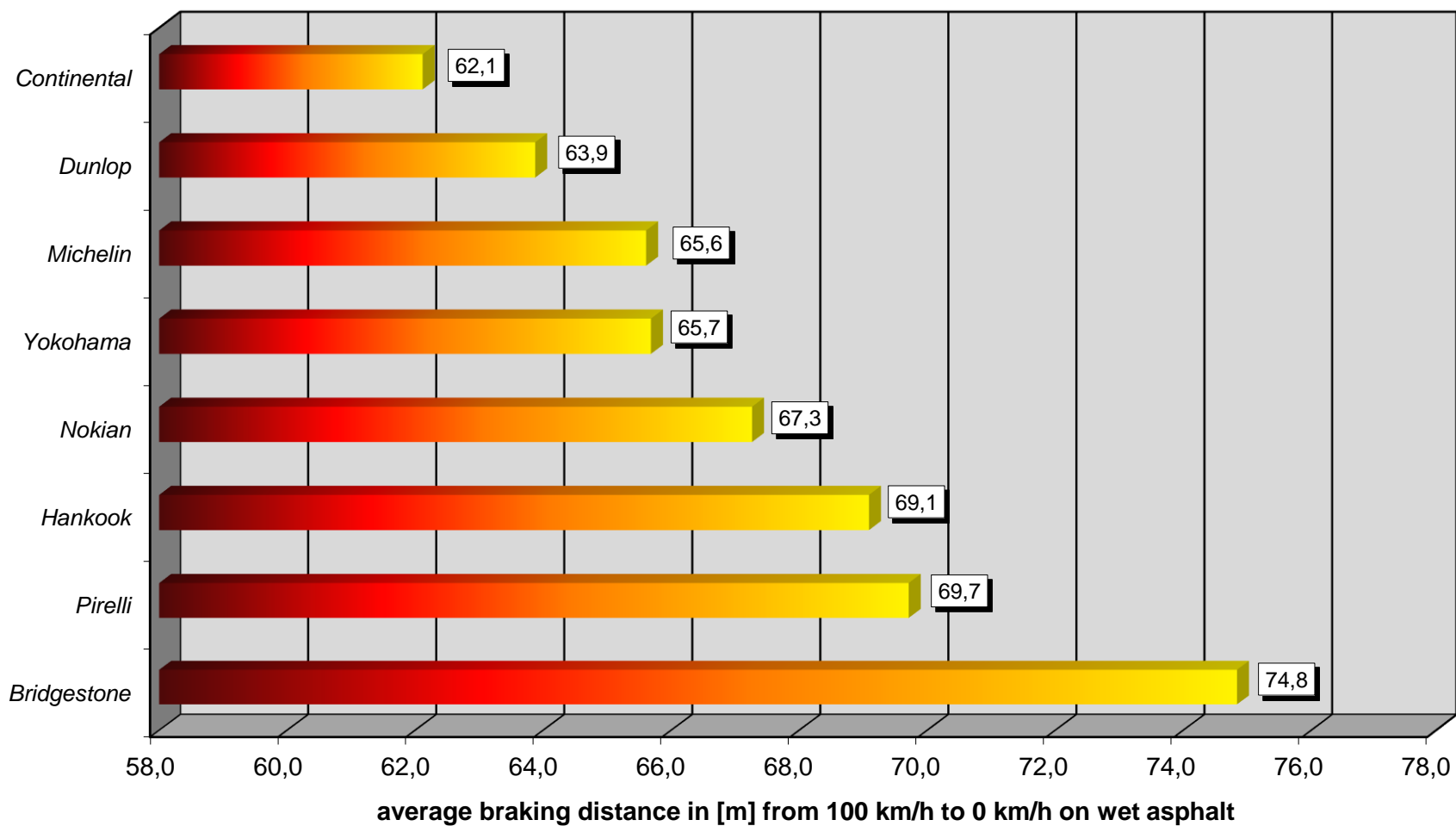
## Autoklub ČR winter tire test 215/65 R 16 aquaplaning-longitudinal, frontdriven car



speed in [km/h] at which the front wheel slip exceeds 15%, 9 mm water depth



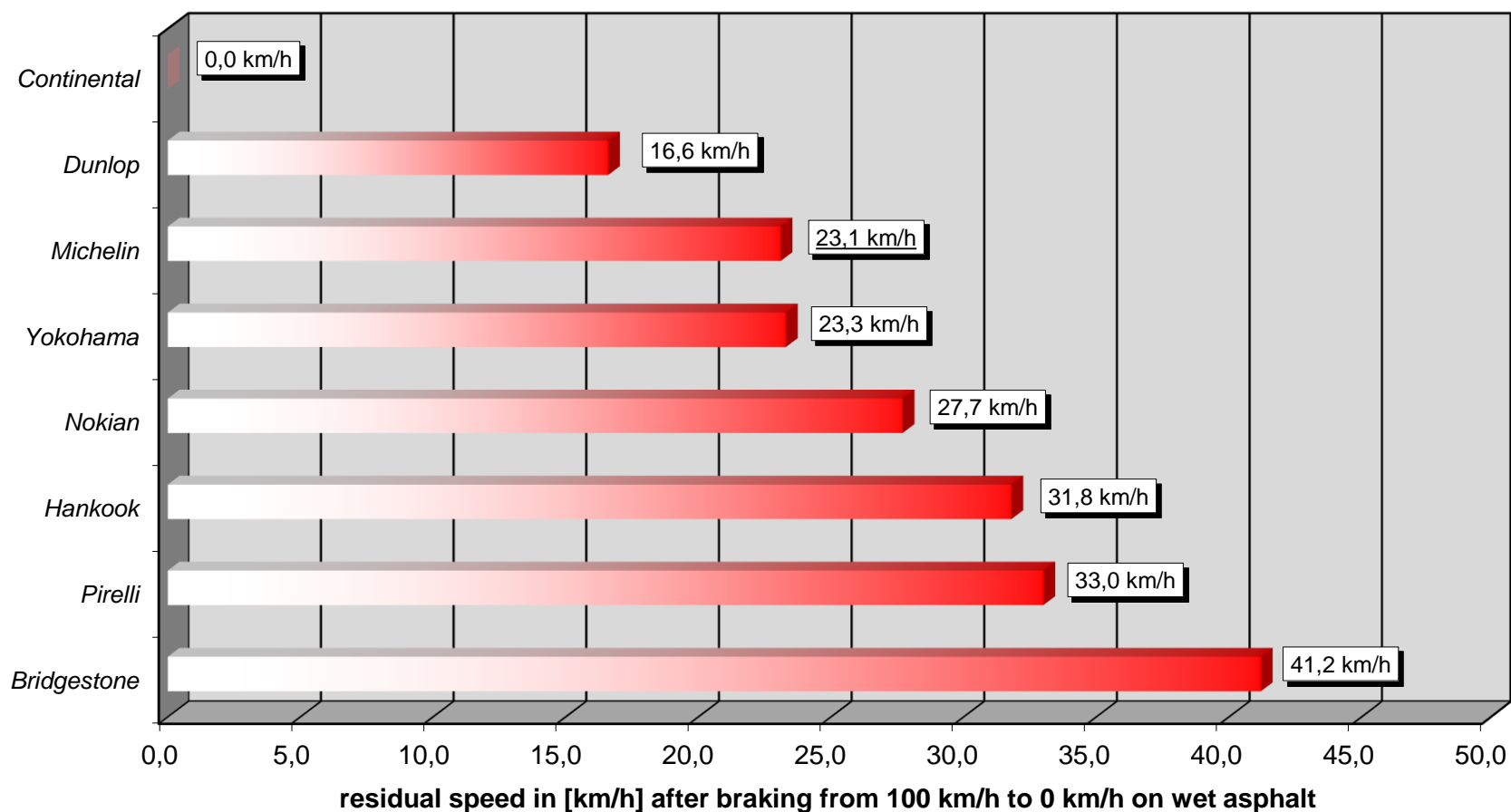
## Autoklub ČR winter tire test 215/65 R 16 4-wheel ABS wet braking



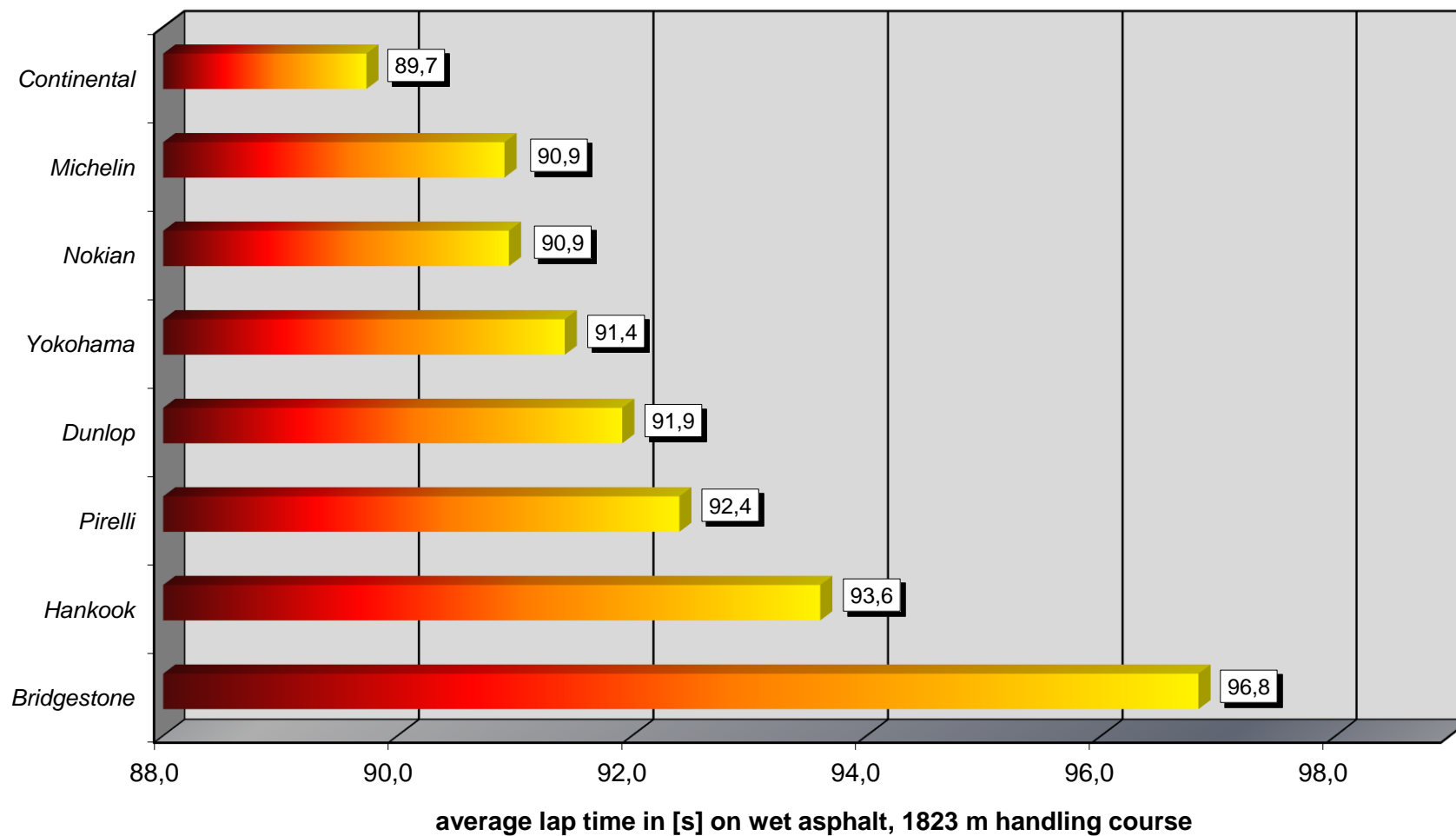
## Autoklub ČR winter tire test 215/65 R 16

### 4-Rad ABS wet braking

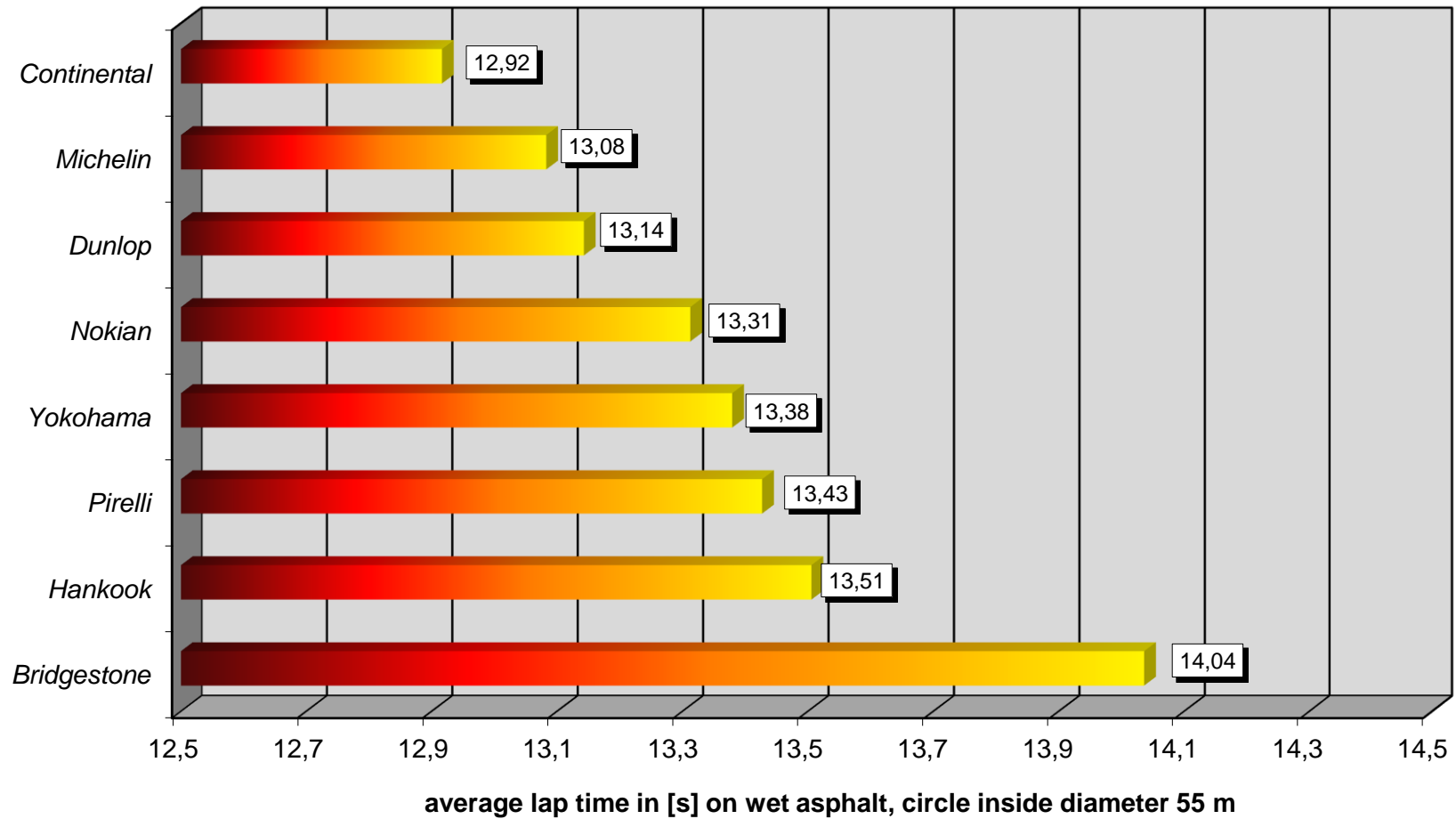
residual speed, after the best winter tire already stopped



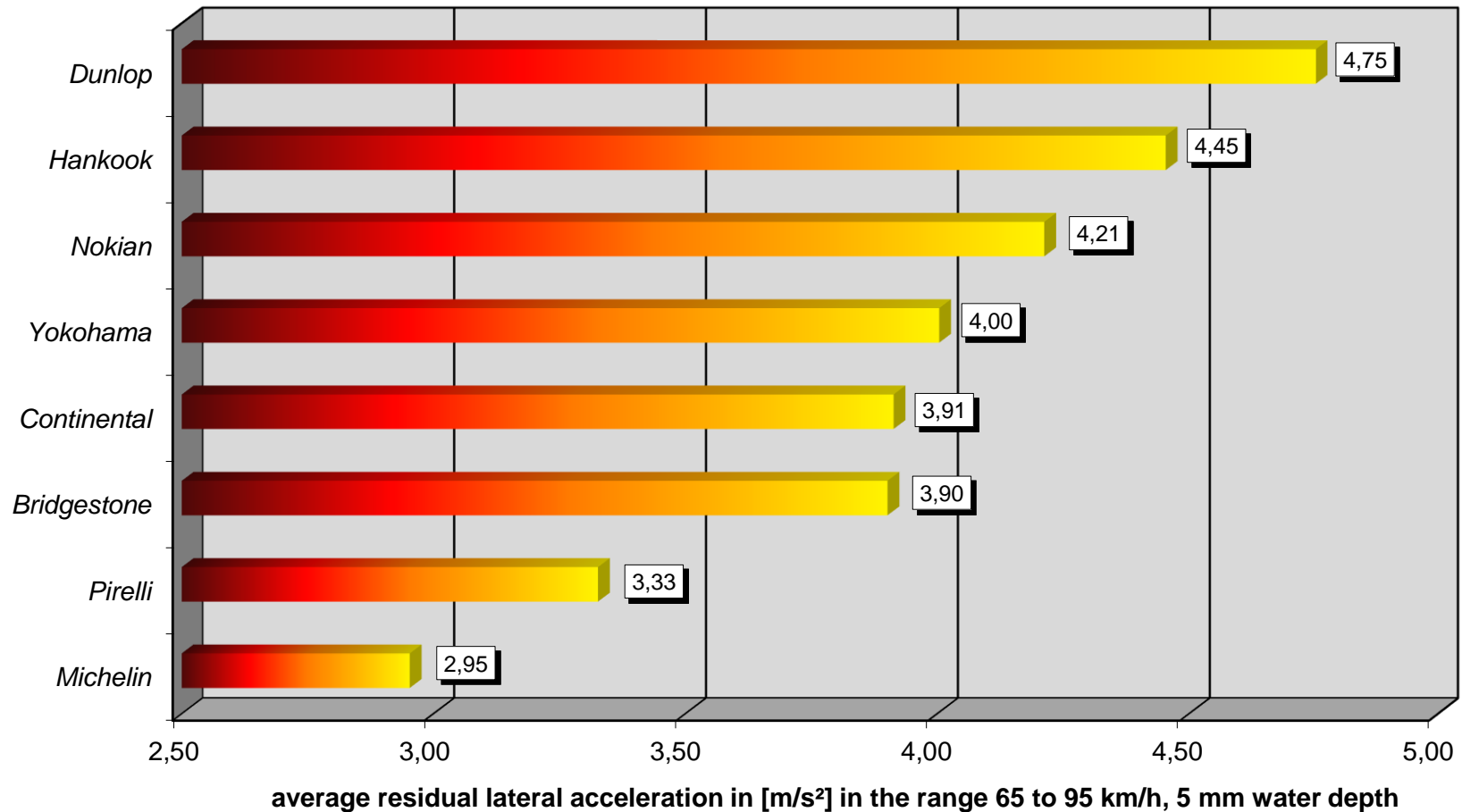
## Autoklub ČR winter tire test 215/65 R 16 wet handling



## Autoklub ČR winter tire test 215/65 R 16 wet cornering, asphalt



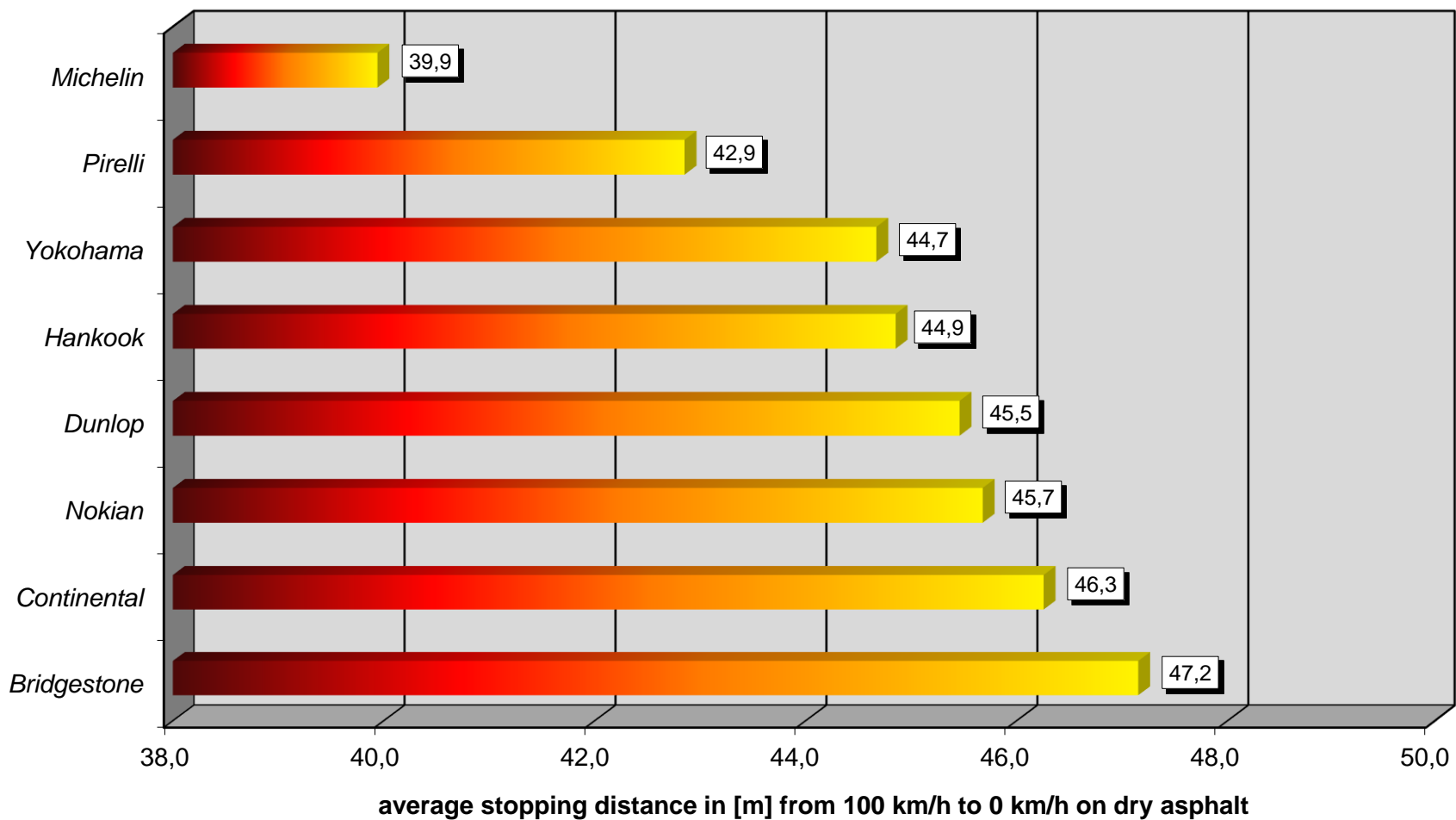
## Autoklub ČR winter tire test 215/65 R 16 aquaplaning-lateral





# Autoklub ČR winter tire test 215/65 R 16

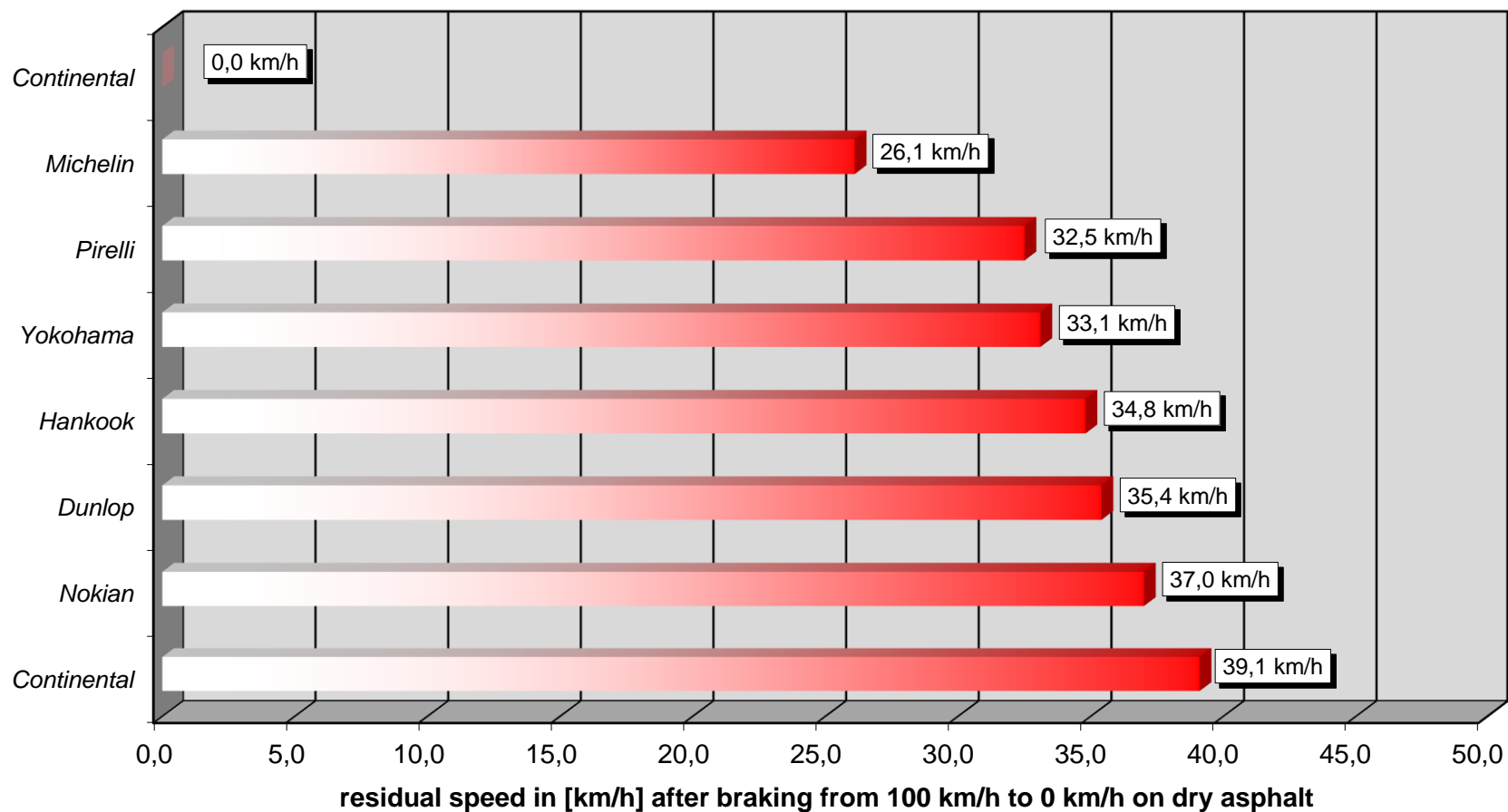
## ABS dry braking



## Autoklub ČR winter tire test 215/65 R 16

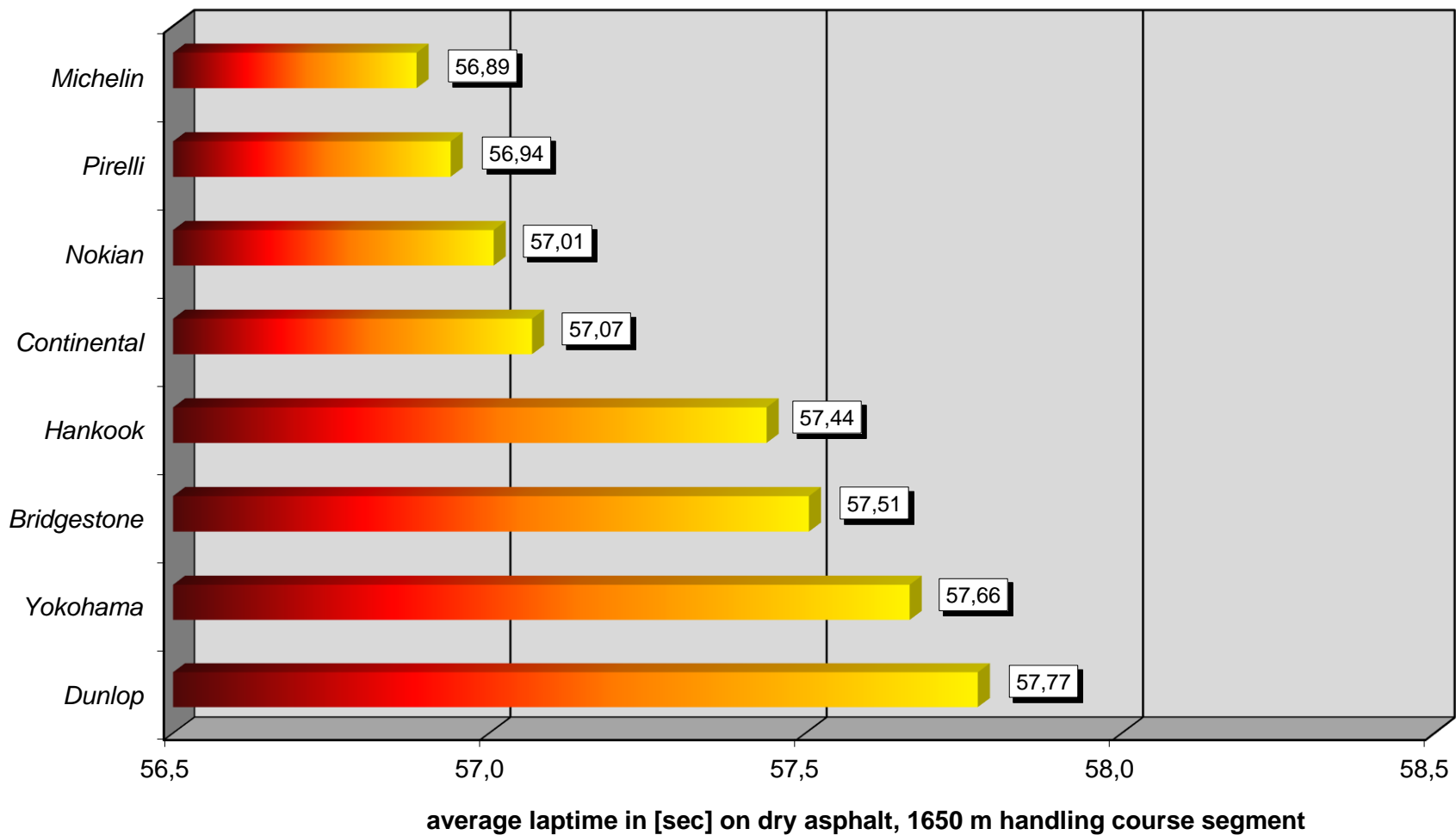
### 4-Rad ABS dry braking

residual speed, after the best winter tire already stopped



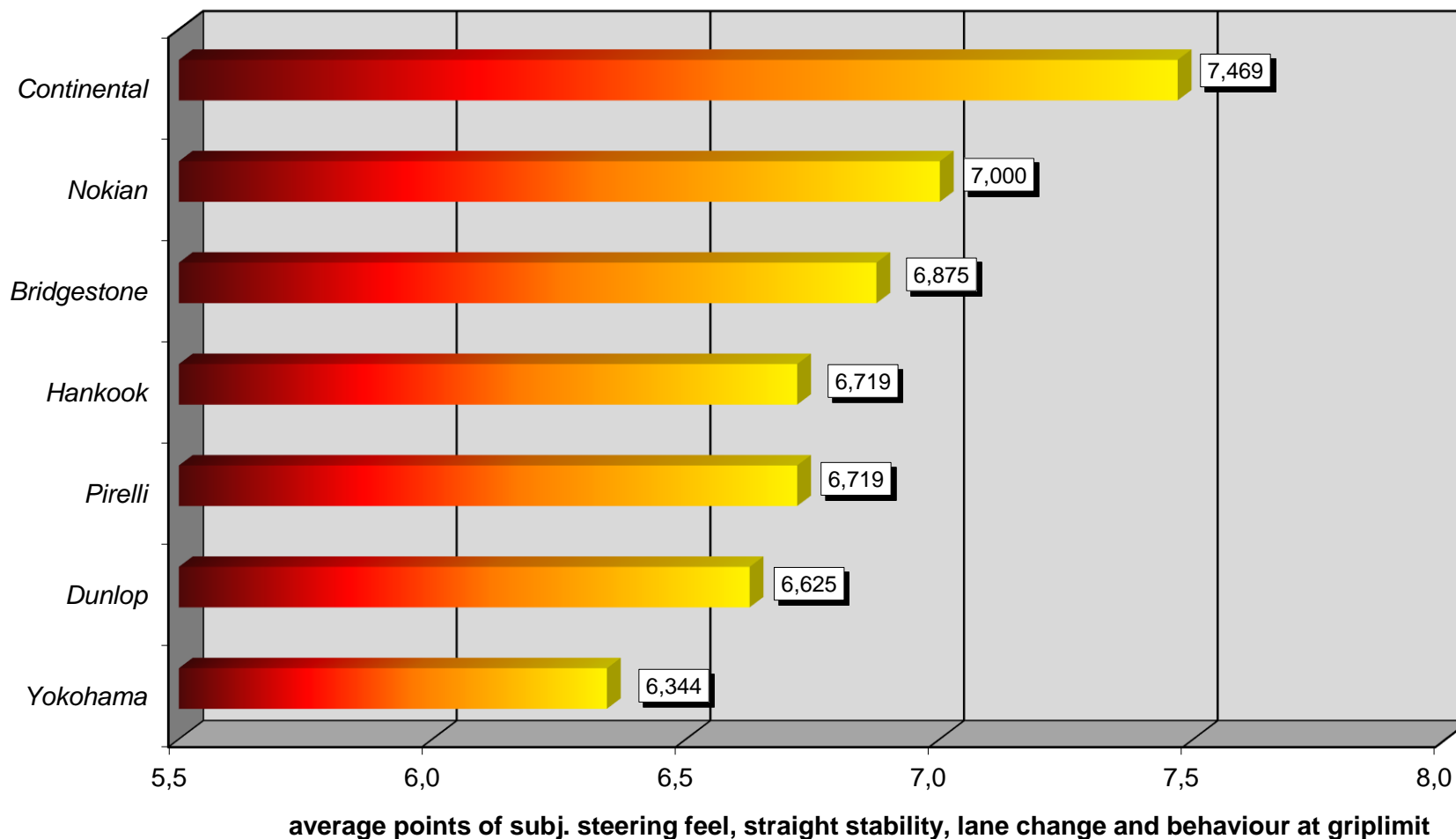


## Autoklub ČR winter tire test 215/65 R 16 dry handling

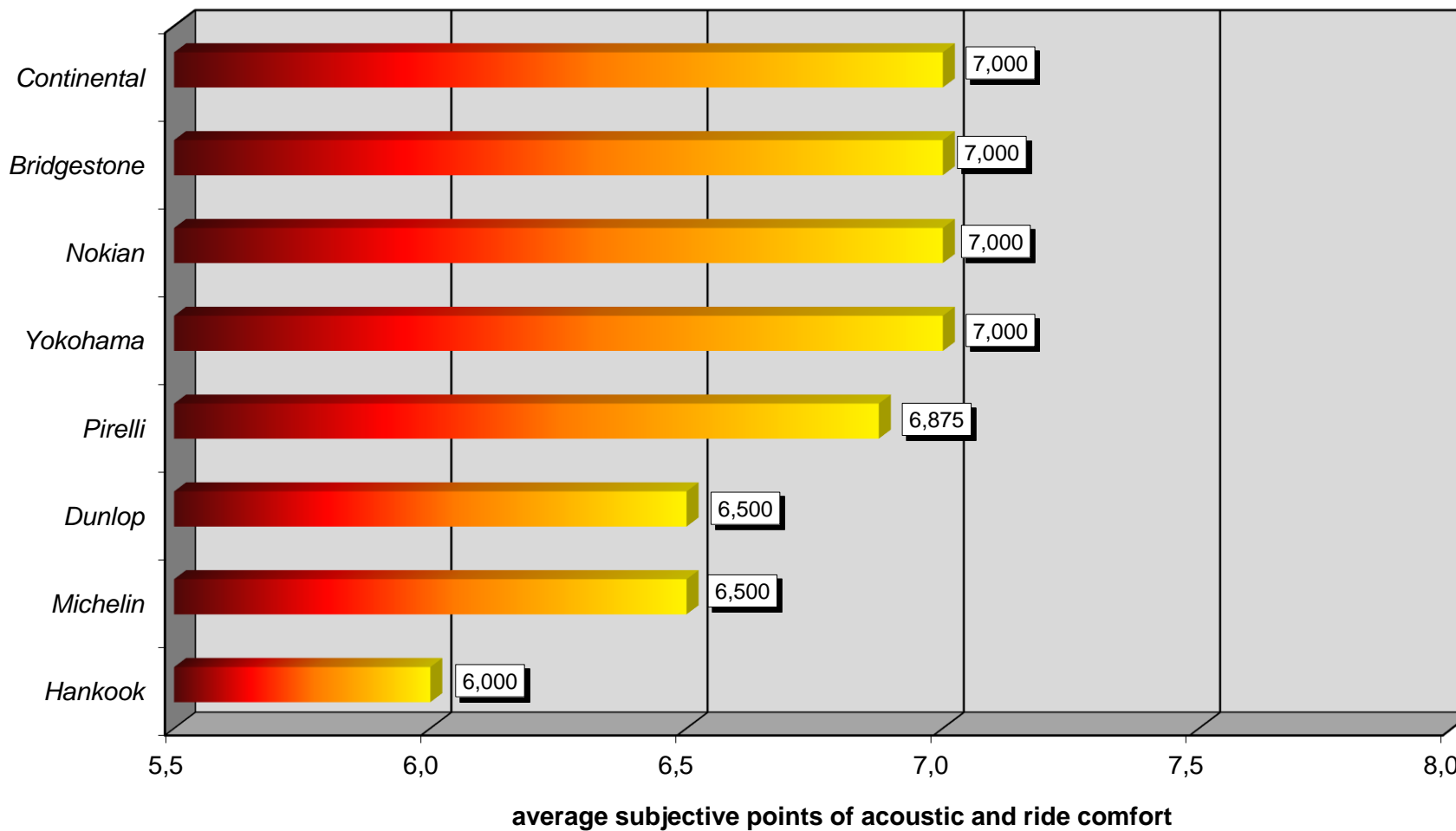




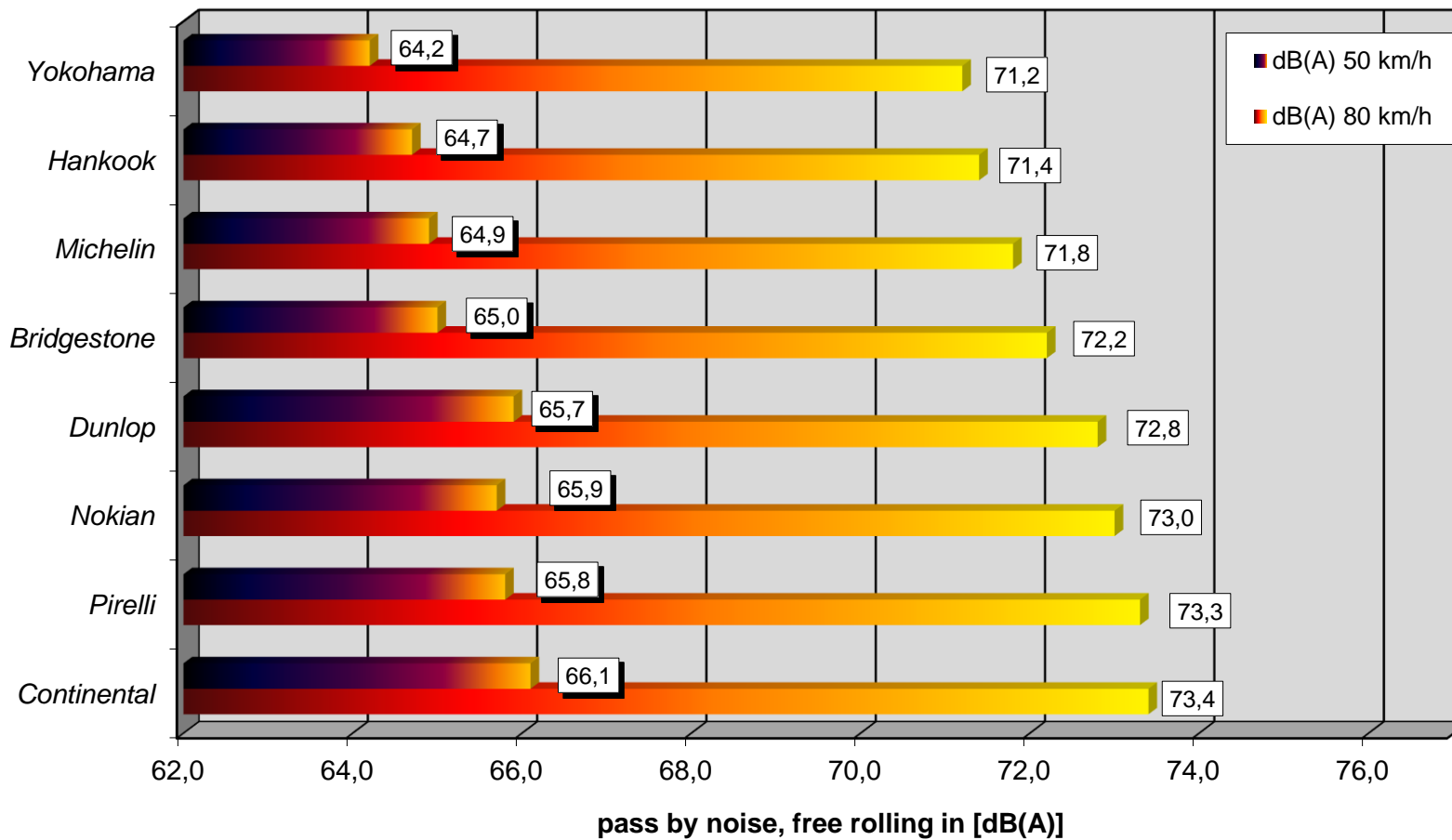
## Autoklub ČR winter tire test 215/65 R 16 dry handling subjective performance



## Autoklub ČR winter tire test 215/65 R 16 subj. comfort



## Autoklub ČR winter tire test 215/65 R 16 pass by noise, outside



# Autoklub Winter Tire Test 2017 in 215/65 R 16

## Rolling Resistance

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Brand	Tread Pattern	LI	Test LI	% relative to Reference	cr [Li=98]	Label
Continental	TS 850 P	98 H	98	100,0	0,855	C
Bridgestone	Blizzak LM-80 Evo	98 H	98	102,4	0,835	C
Dunlop	Winter Sport 5	98 H	98	116,5	0,734	B
Hankook	i*cept RS2 W452	98 H	98	85,6	0,999	E
Michelin	CrossClimate	<b>102 V</b>	<b>98</b>	109,9	0,778	-
Nokian	WR D4	<b>102 H</b>	<b>98</b>	98,3	0,870	-
Pirelli	Winter Sottozero 3	98 H	98	98,7	0,866	C
Yokohama	W.Drive V905	98 H	98	98,3	0,870	C

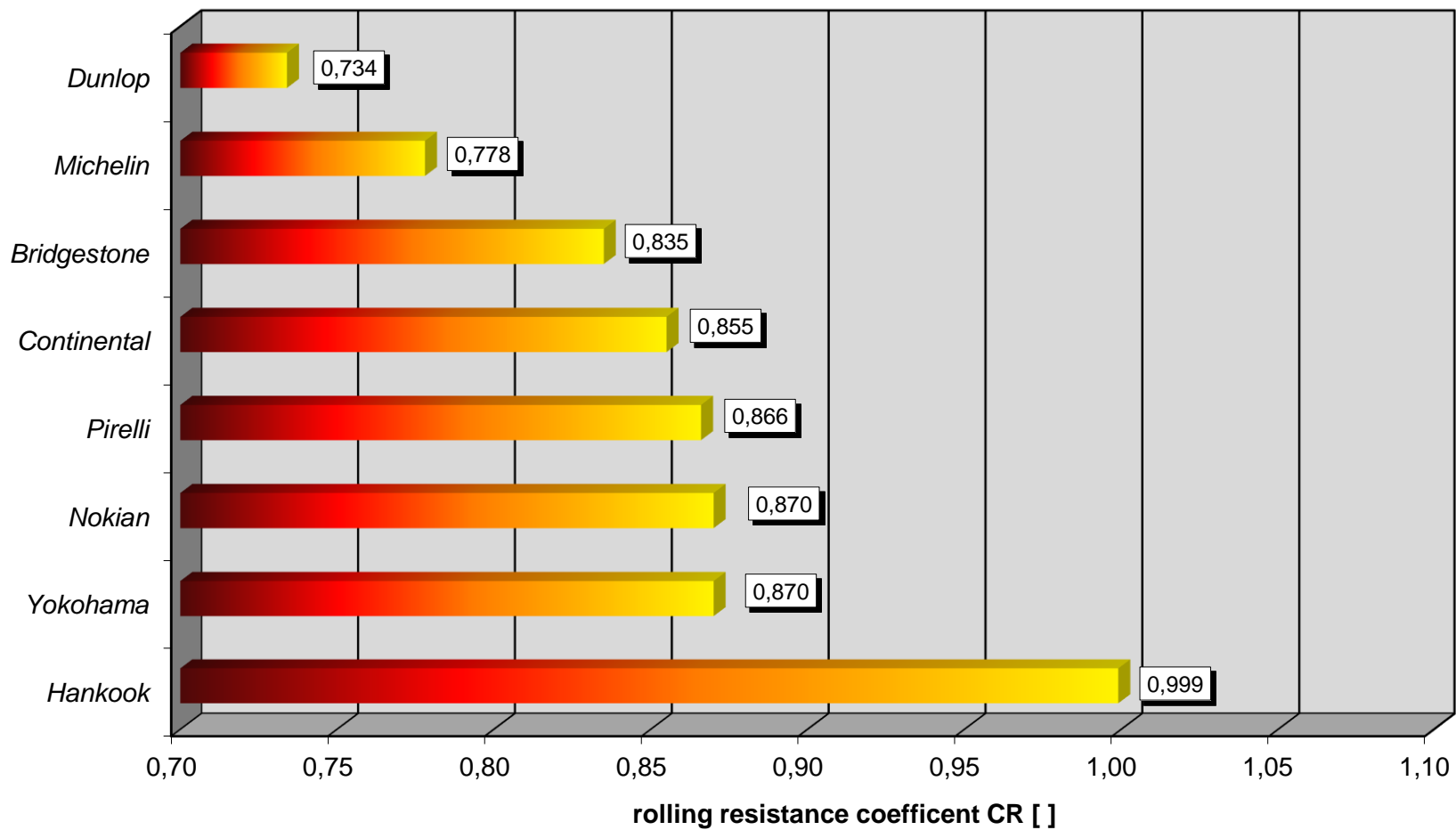
Load SL 5886 N

Infl.Pressure SL 2,1 bar

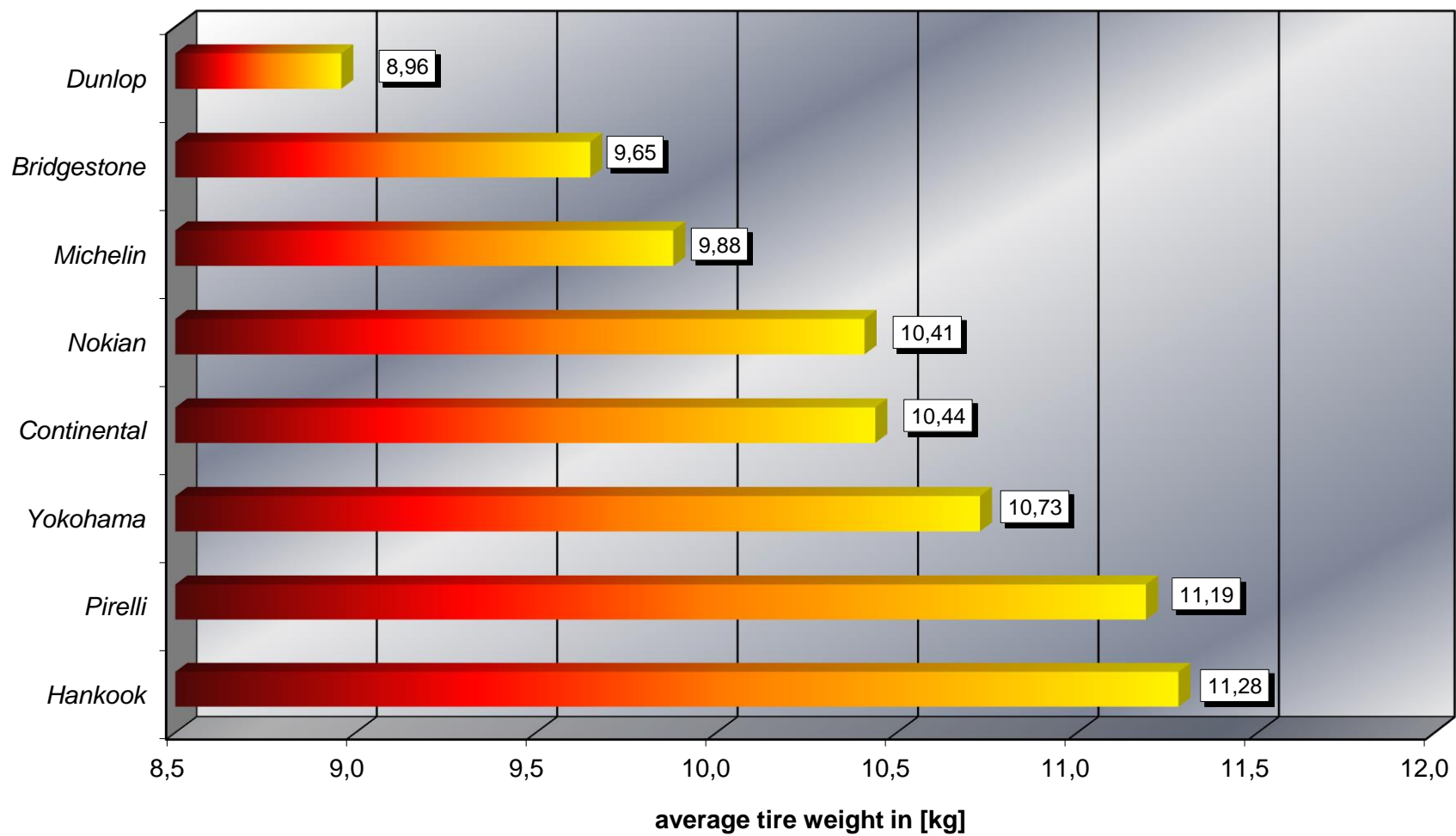
**Calculation** % =  $CR_{(Reference)} / CR_{(Test)} \times 100$



## Autoklub ČR winter tire test 215/65 R 16 rolling resistance



## Autoklub ČR winter tire test 205/55 R 16 tire weight





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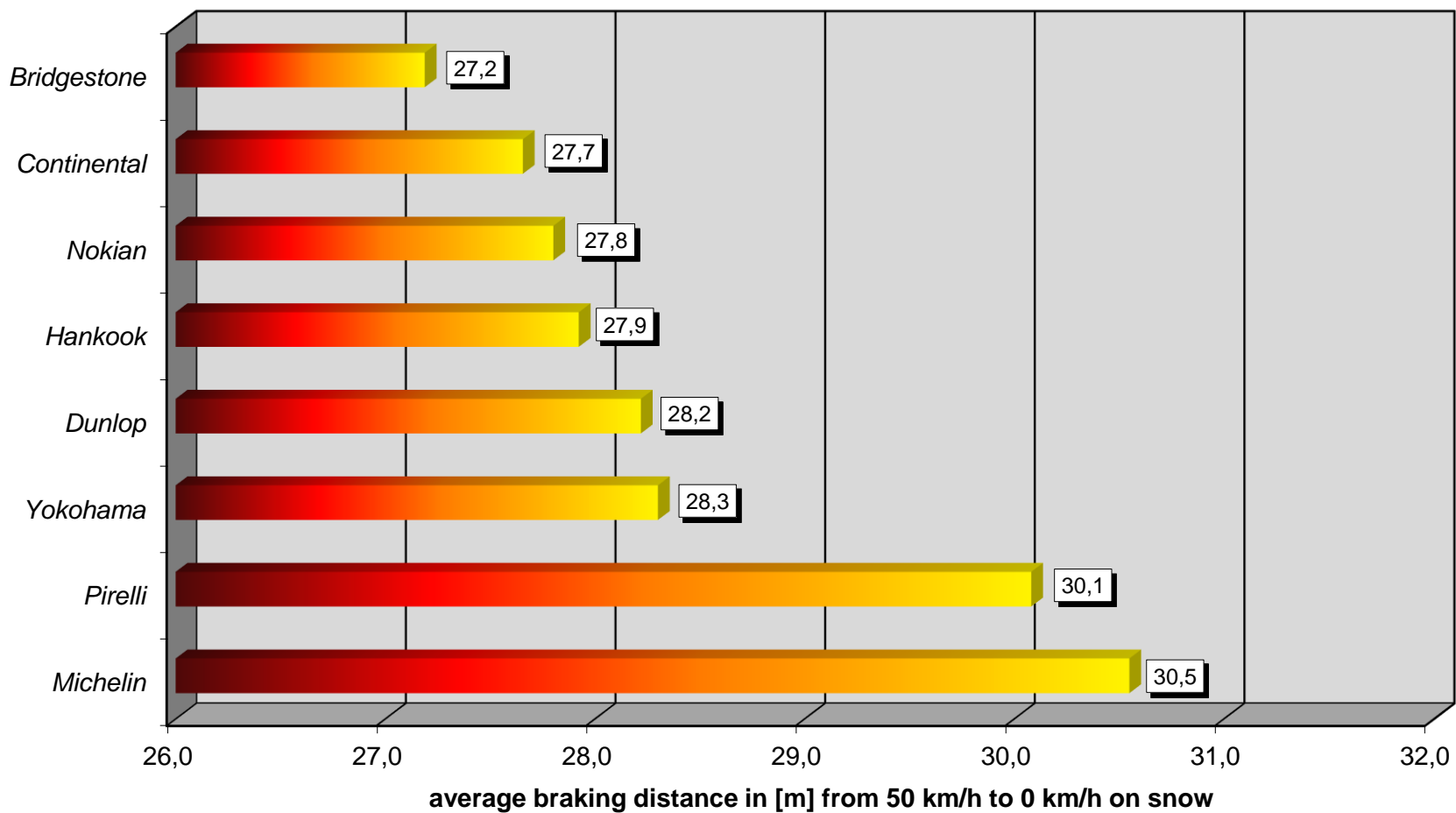


**SNOW  
results**

**Winter Tire Test  
215/65 R 16**

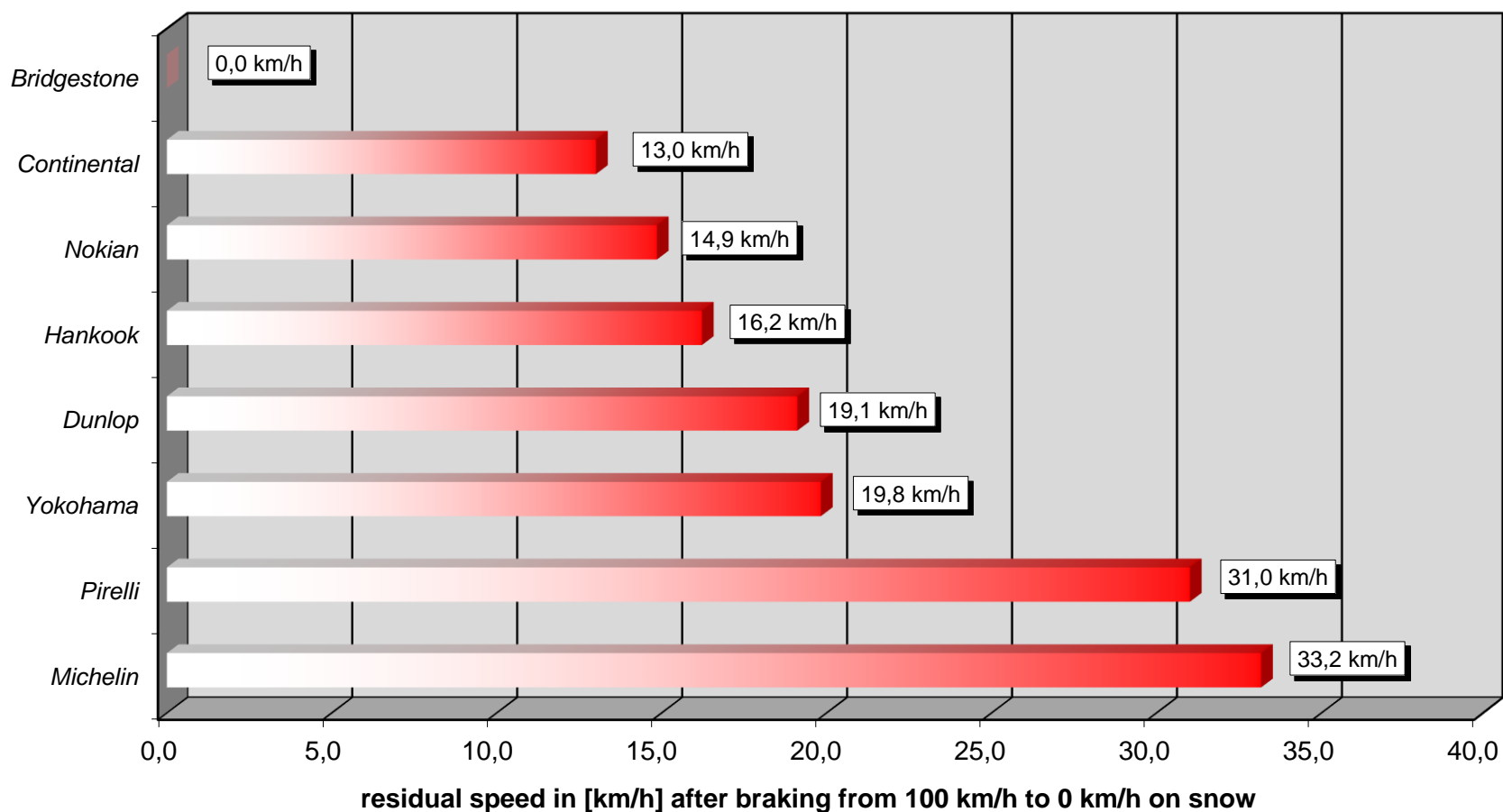
**Ulrichen  
23.01. - 25.01.2017**

## Autoklub ČR winter tire test 215/65 R 16 4-wheel ABS snow braking, -15/-20°C

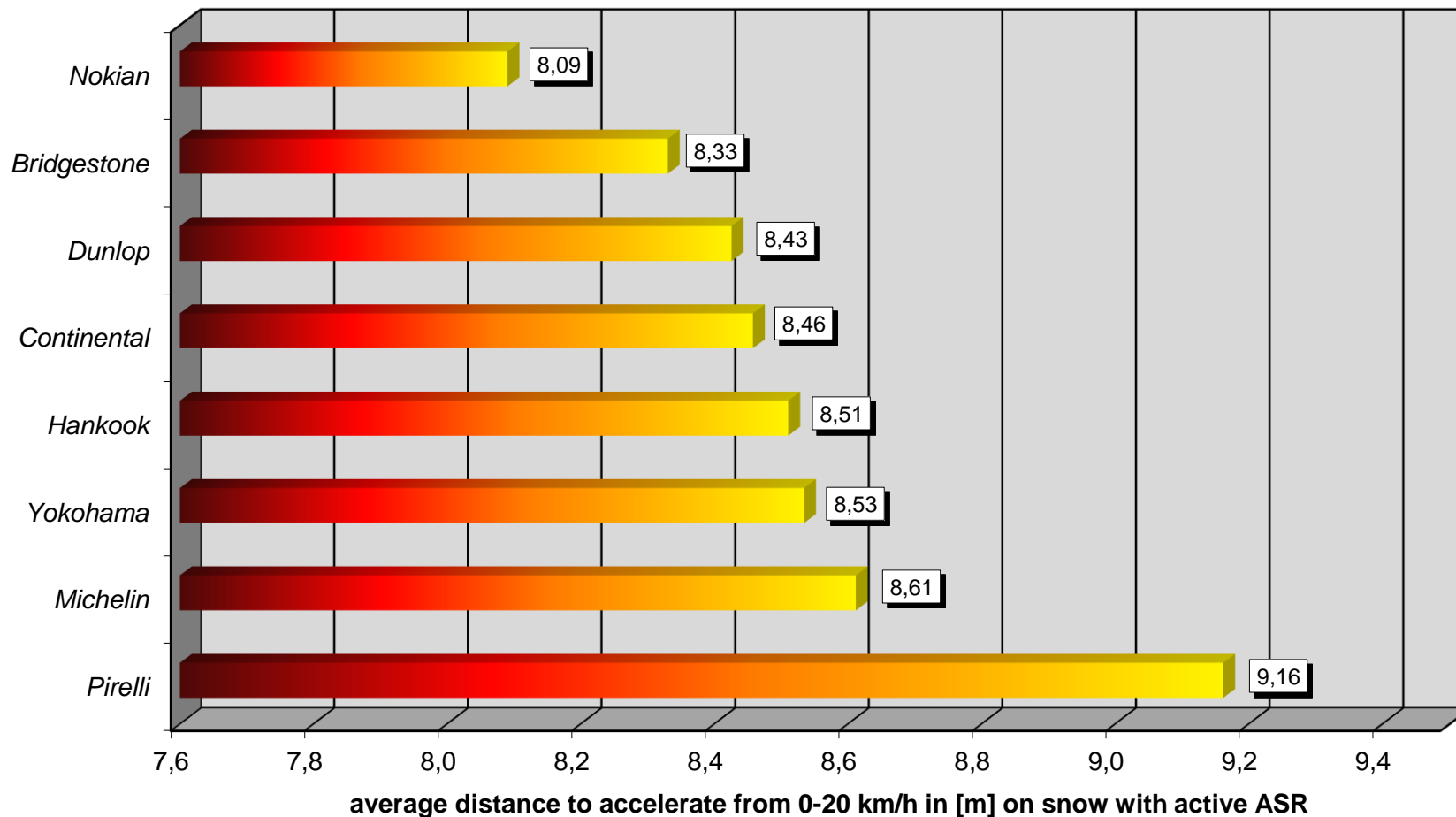




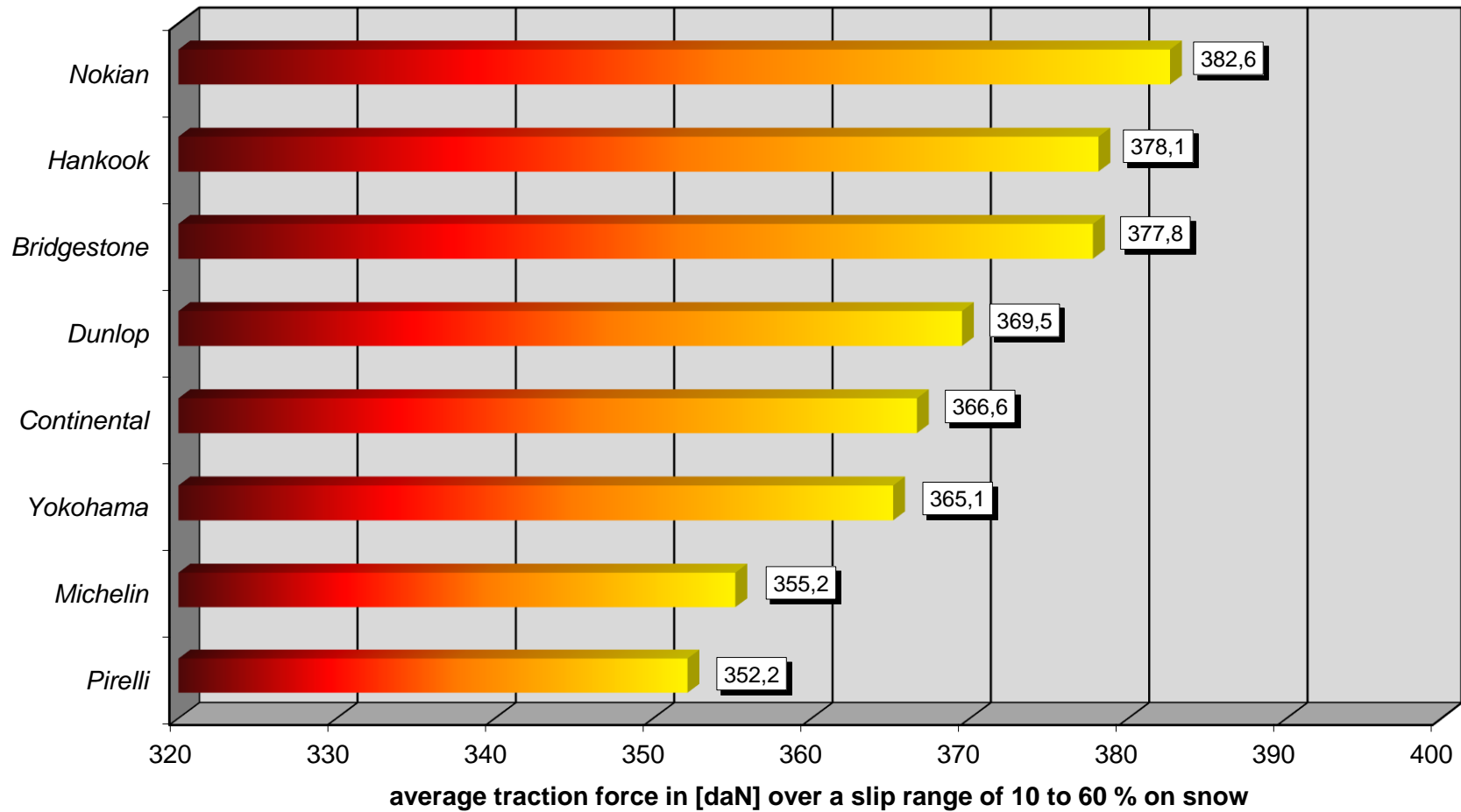
## Autoklub ČR winter tire test 215/65 R 16 4-Rad ABS snow braking residual speed, after the best winter tire already stopped



## Autoklub ČR winter tire test 215/65 R 16 ASR acceleration on snow, -10/-16°C



## Autoklub ČR winter tire test 215/65 R 16 Traction snow, -17/-19°C



## Autoklub ČR winter tire test 215/65 R 16 Handling snow, -3/-13°C

