



**AUTOKLUB
ČESKÉ REPUBLIKY**



**test
results**

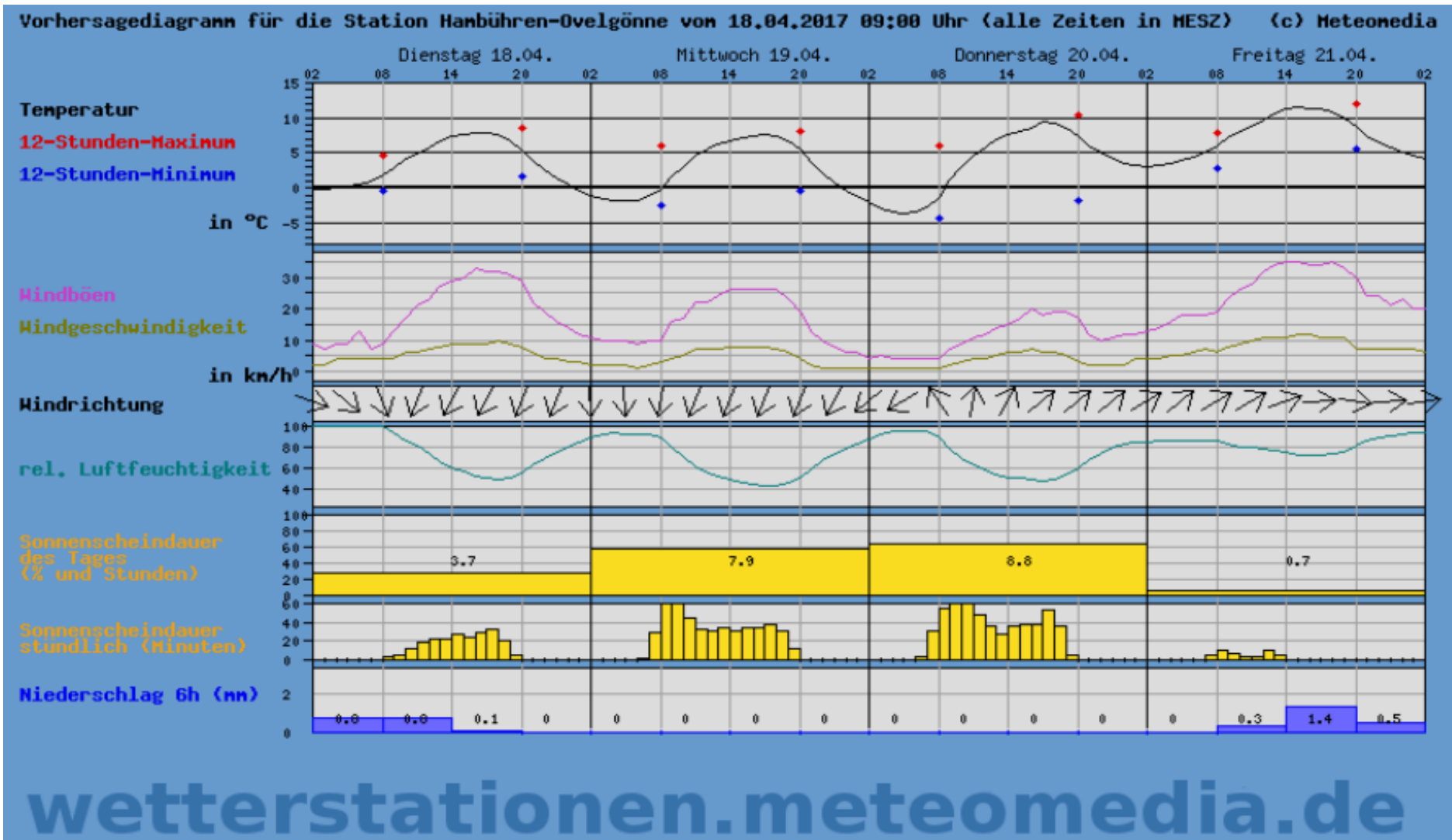
Winter Tire Test

215/65 R 16

Contidrom

18.04. - 20.04.2017

Weather forecast



Schedule for Autoklub Tire Test 04.2017



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

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

magazine: Autoklub ČR		rozměr: 215/65 R 16				vozidla: VW Tiguan			
 AUTOKLUB ČESKÉ REPUBLIKY 		Continental	Bridgestone	Dunlop	Hankook	Michelin	Nokian	Pirelli	Yokohama
		WinterContact TS 850P	Blizzak LM-80 EVO	Winter Sport 5	Icept RS2 W452	Cross Climate	WR D4	Winter Sottozero 3	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
Celkové hodnocení	weighting	100,0	96,2	99,9	98,0	98,4	99,6	96,0	98,4
MOKRÝ POVRH	33%	100,0	89,4	99,7	96,5	94,3	97,3	91,9	97,1
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>		1	8	5	7	2	2	7	6
SUCHÝ POVRCH	33%	100,0	99,0	101,1	98,8	105,9	100,0	102,0	100,1
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>		1	4	7	6	1	3	5	8
<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 & 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
SNÍH	33%	100,0	100,3	98,8	98,9	95,0	101,4	94,2	98,2
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>		1	6	3	5	7	2	8	4

Performance Legenda:

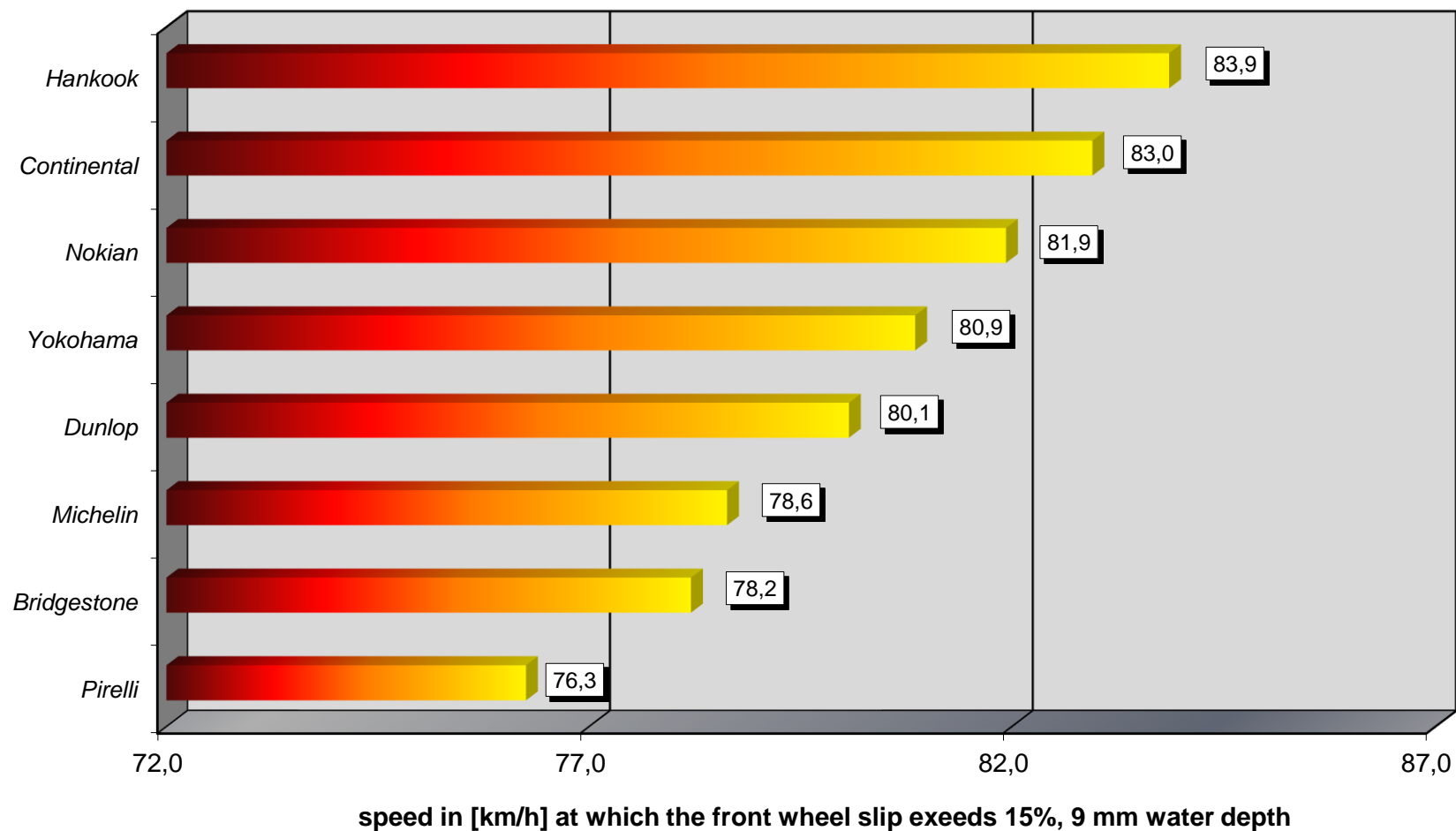
 velmi dobrý
 dobrý
 slabý
 špatný
 nedostatečný

Suchý handling, subjektivní vlastnosti včetně hodnocení

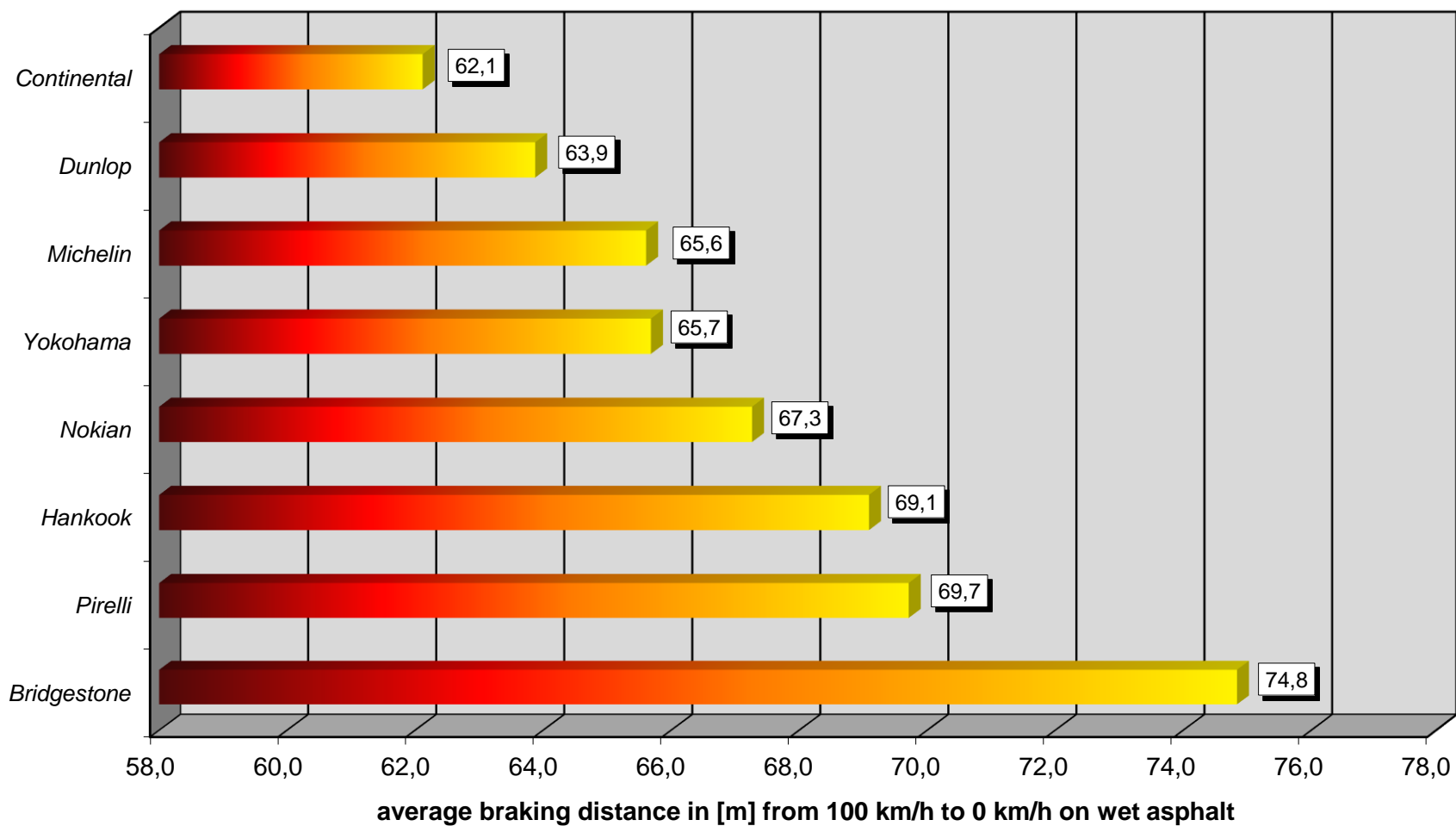
- přímá stabilita jízdy (25%)
- odezva na řízení (25%)
- změna jízdního pruhu (25%)
- chování na limitu přilnavosti - přenos bočních sil (25%)



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



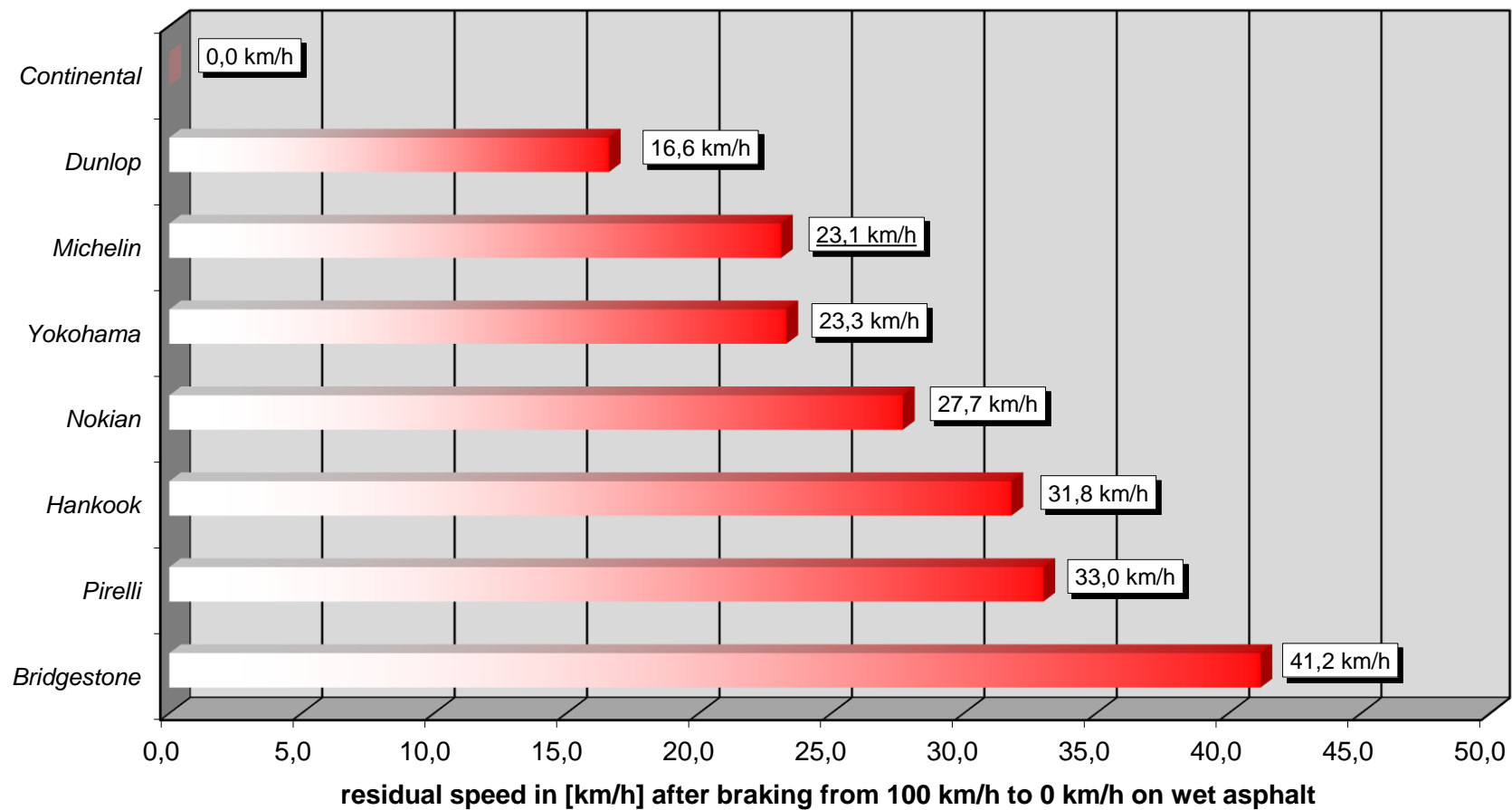
Autoklub ČR winter tire test 215/65 R 16 4-wheel ABS wet braking



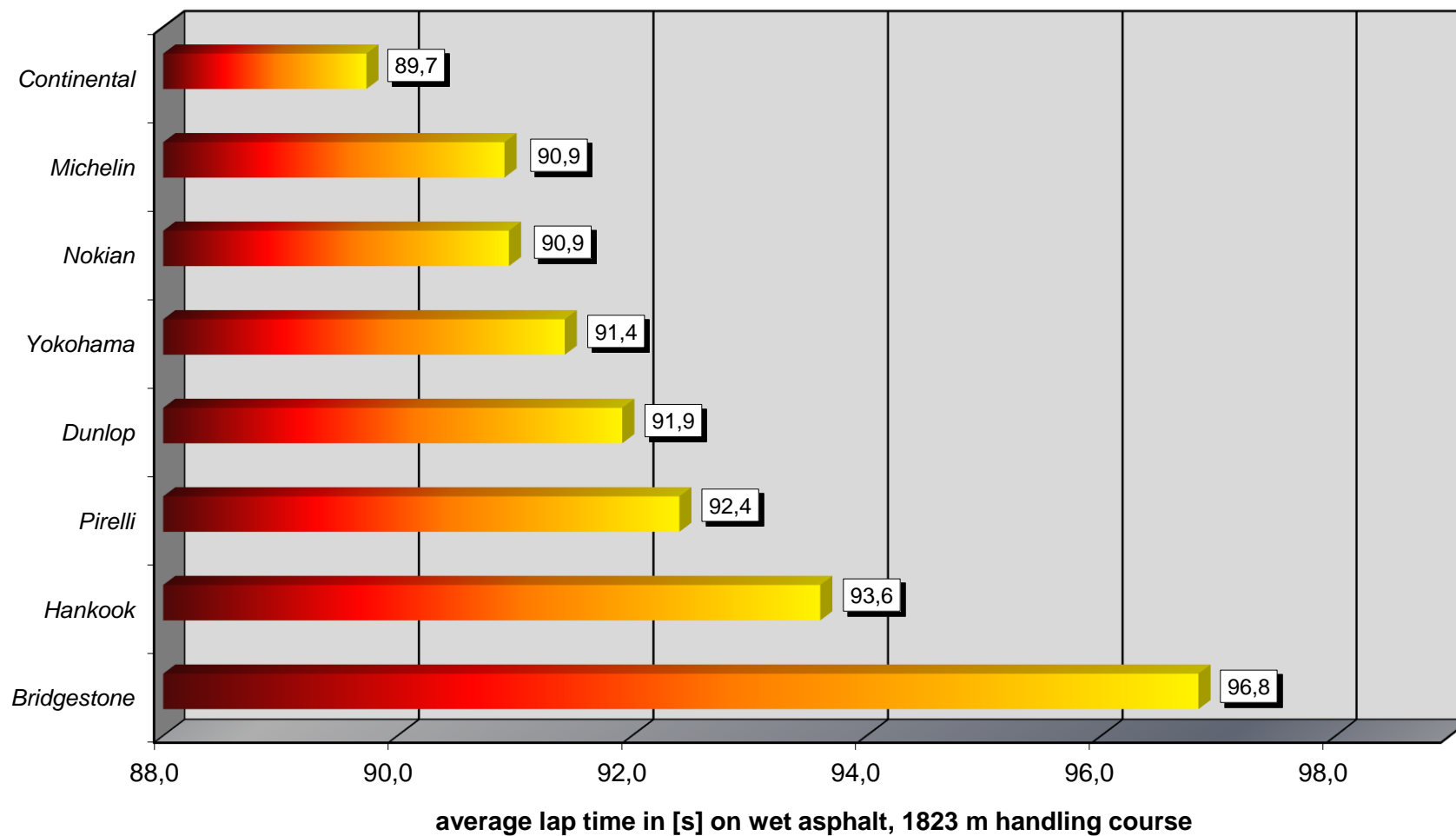
Autoklub ČR winter tire test 215/65 R 16

4-Rad ABS wet braking

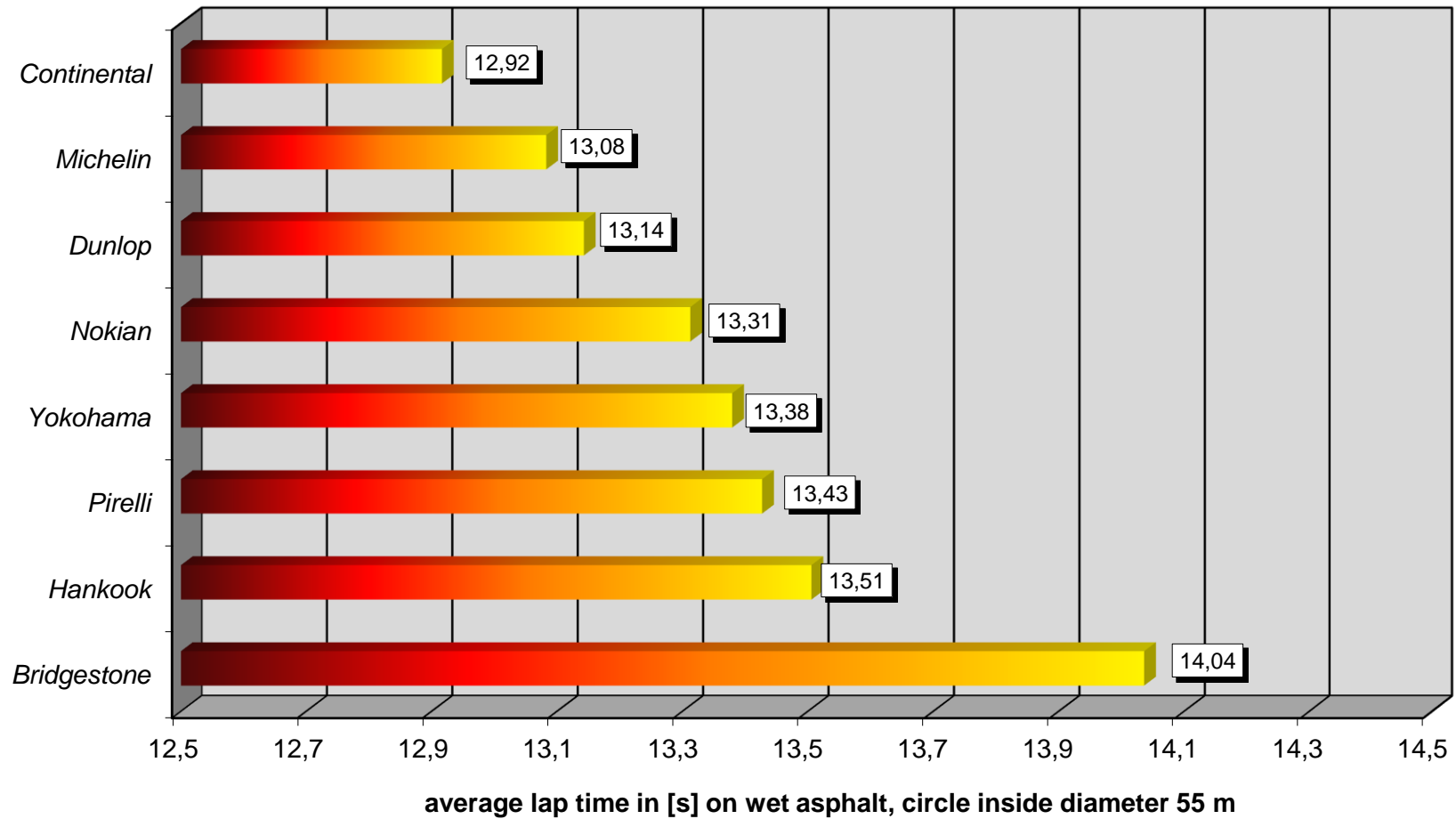
residual speed, after the best winter tire already stopped



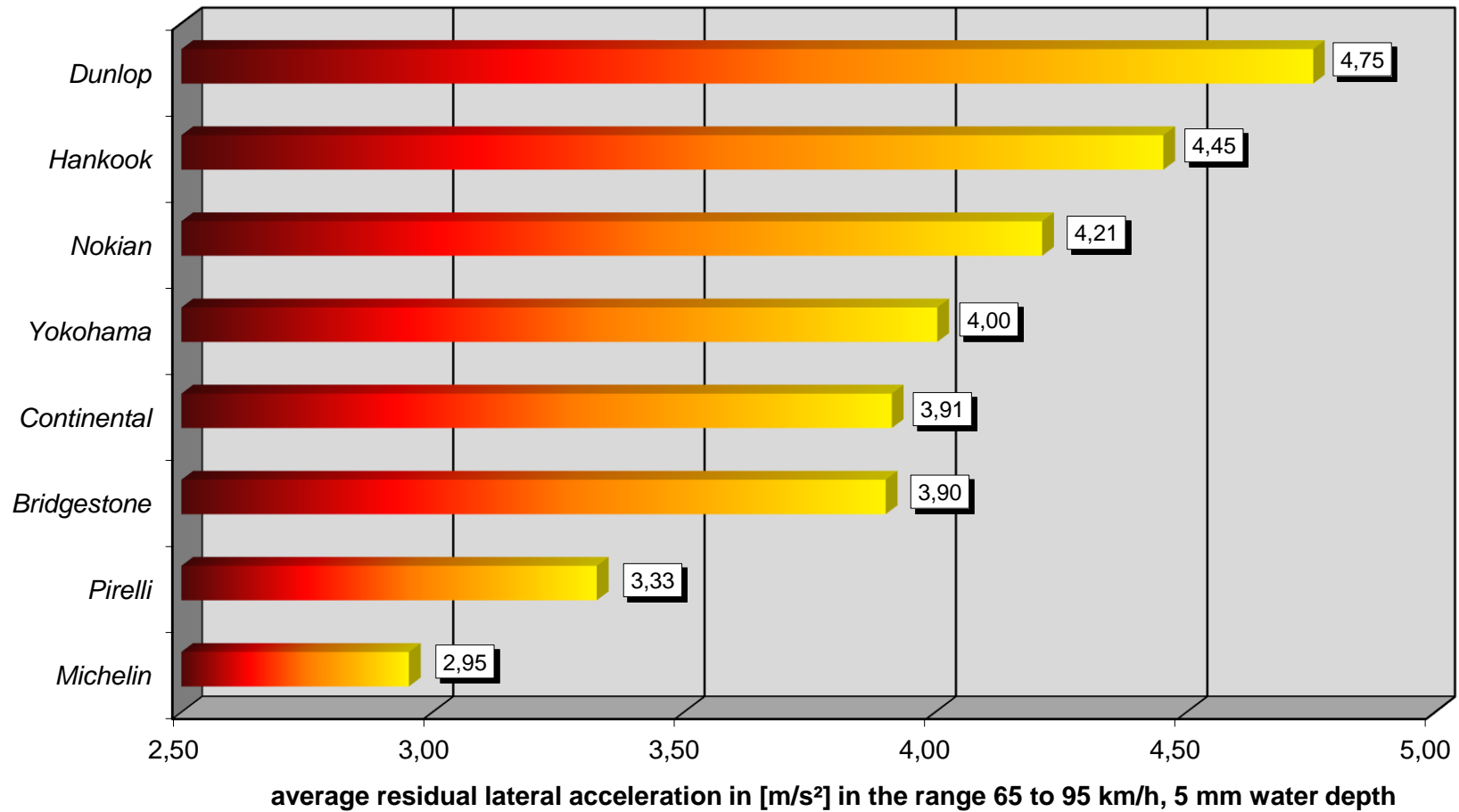
Autoklub ČR winter tire test 215/65 R 16 wet handling



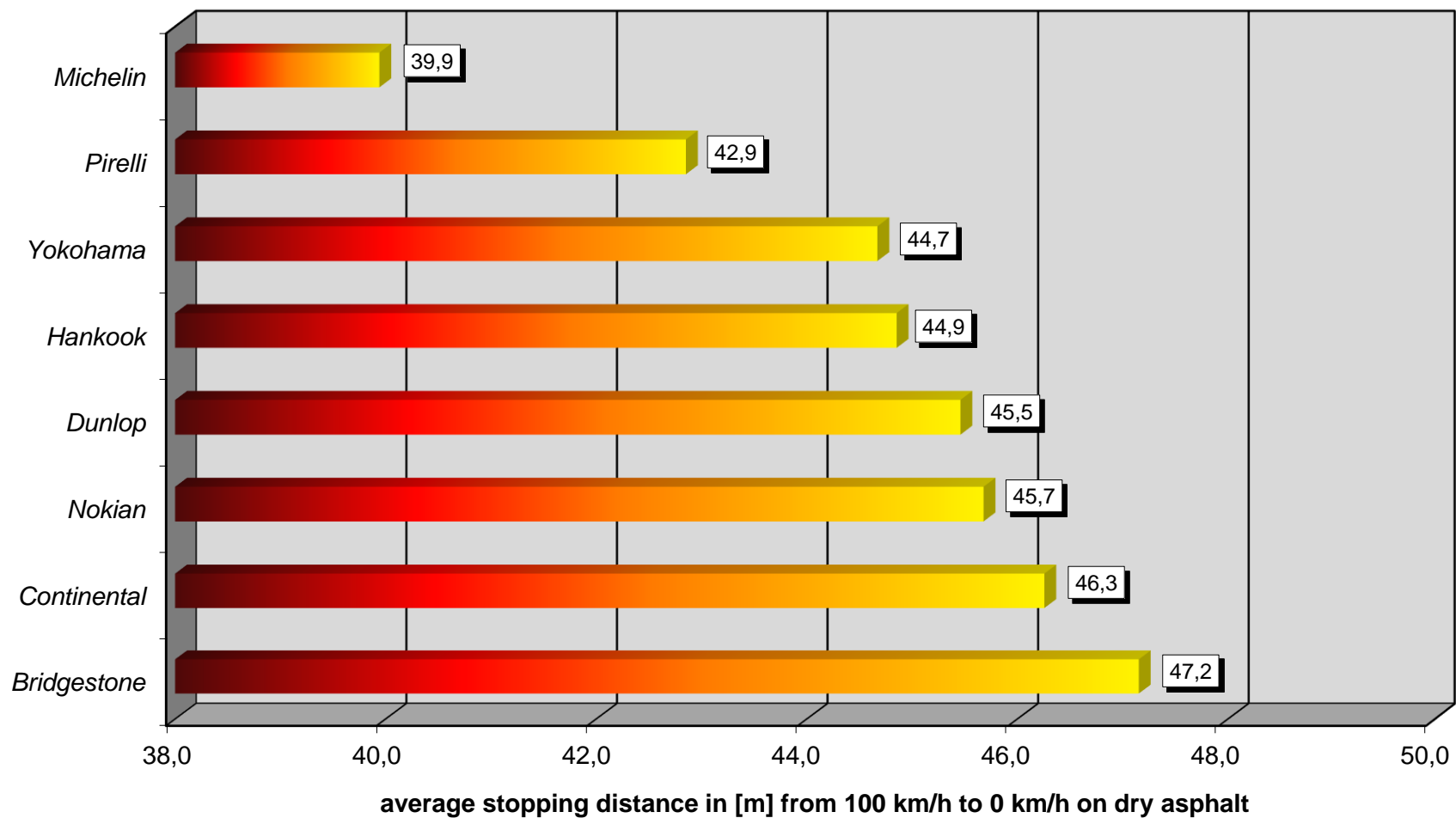
Autoklub ČR winter tire test 215/65 R 16 wet cornering, asphalt



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



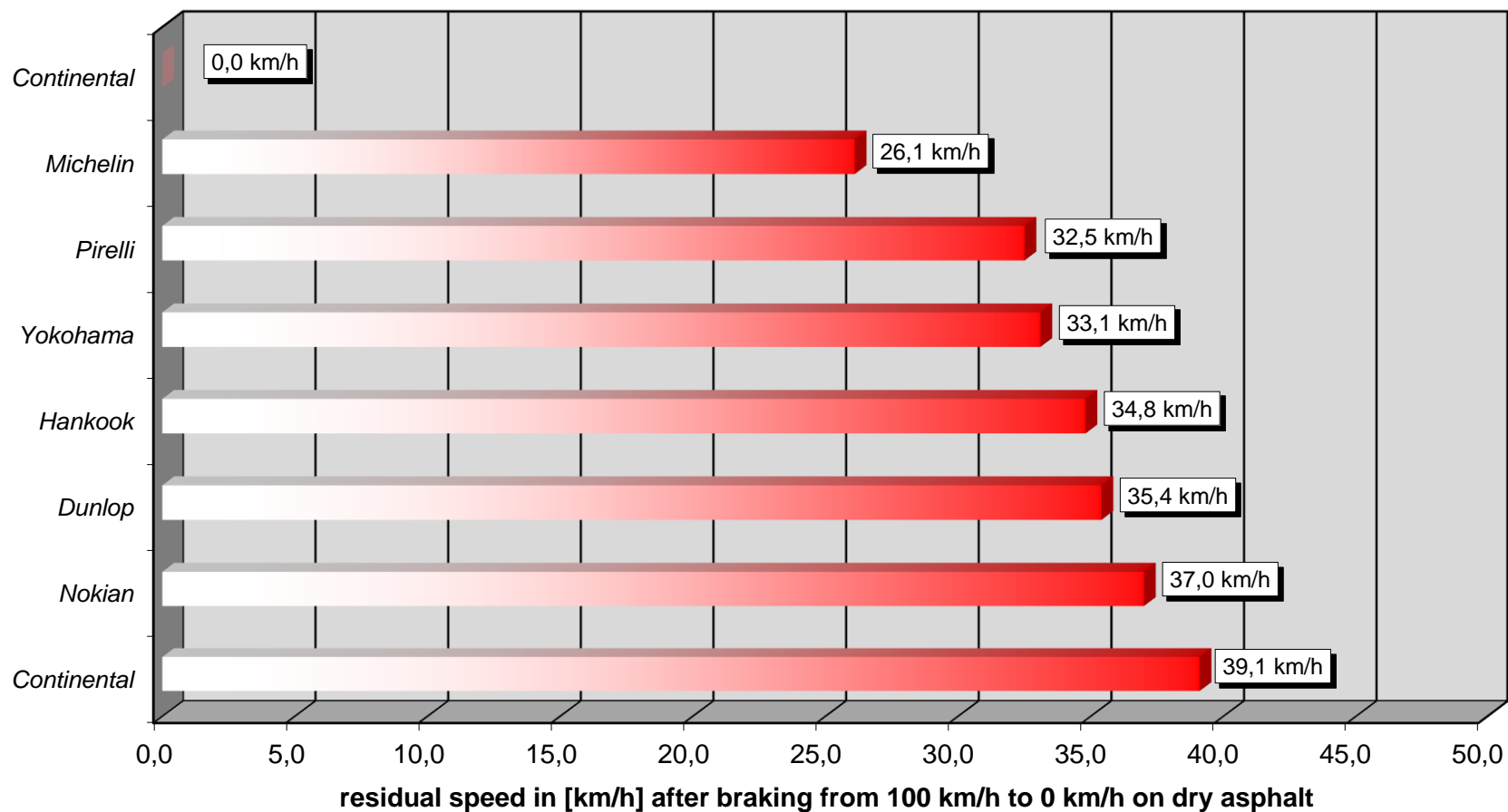
Autoklub ČR winter tire test 215/65 R 16 ABS dry braking



Autoklub ČR winter tire test 215/65 R 16

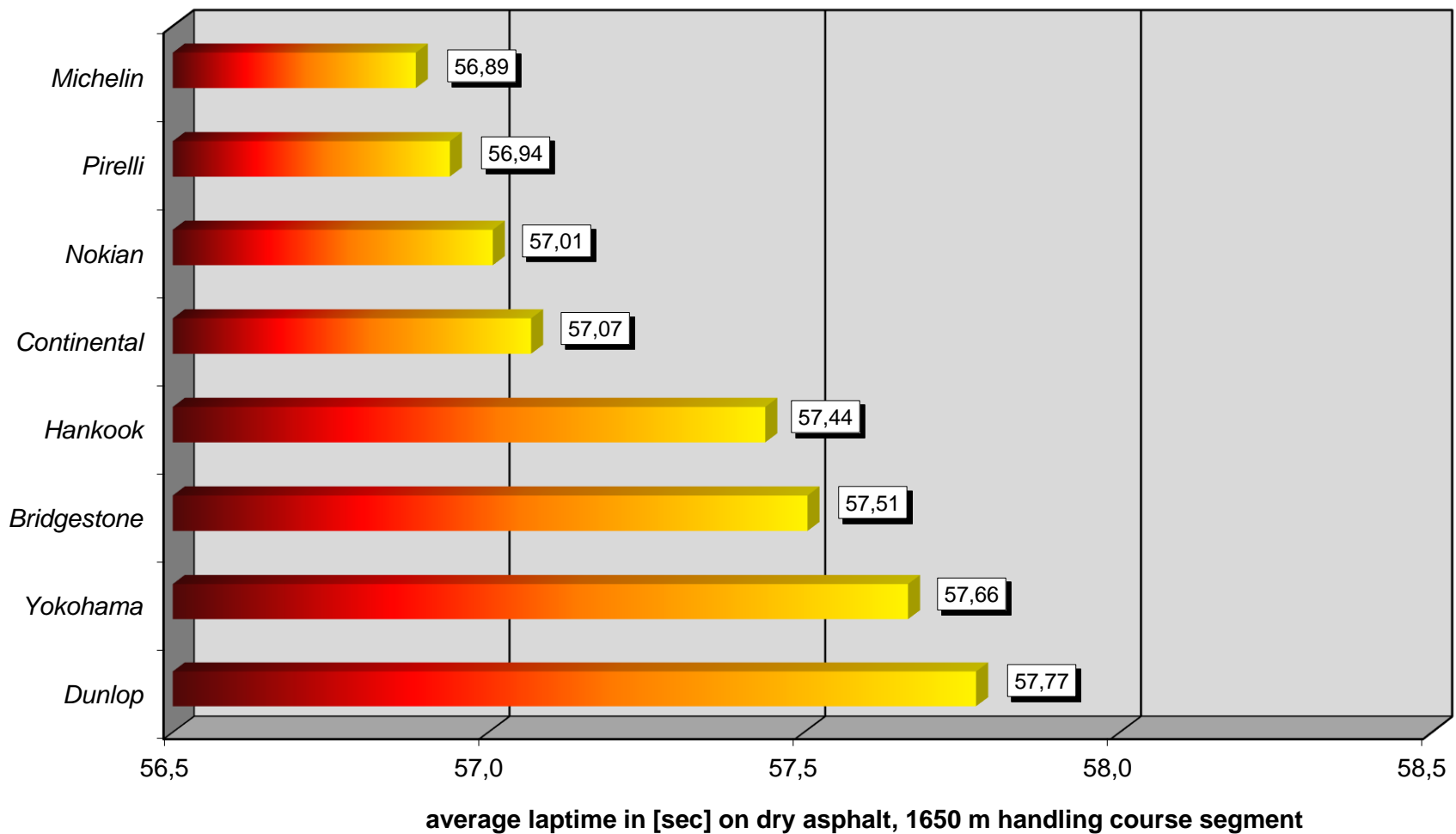
4-Rad ABS dry braking

residual speed, after the best winter tire already stopped

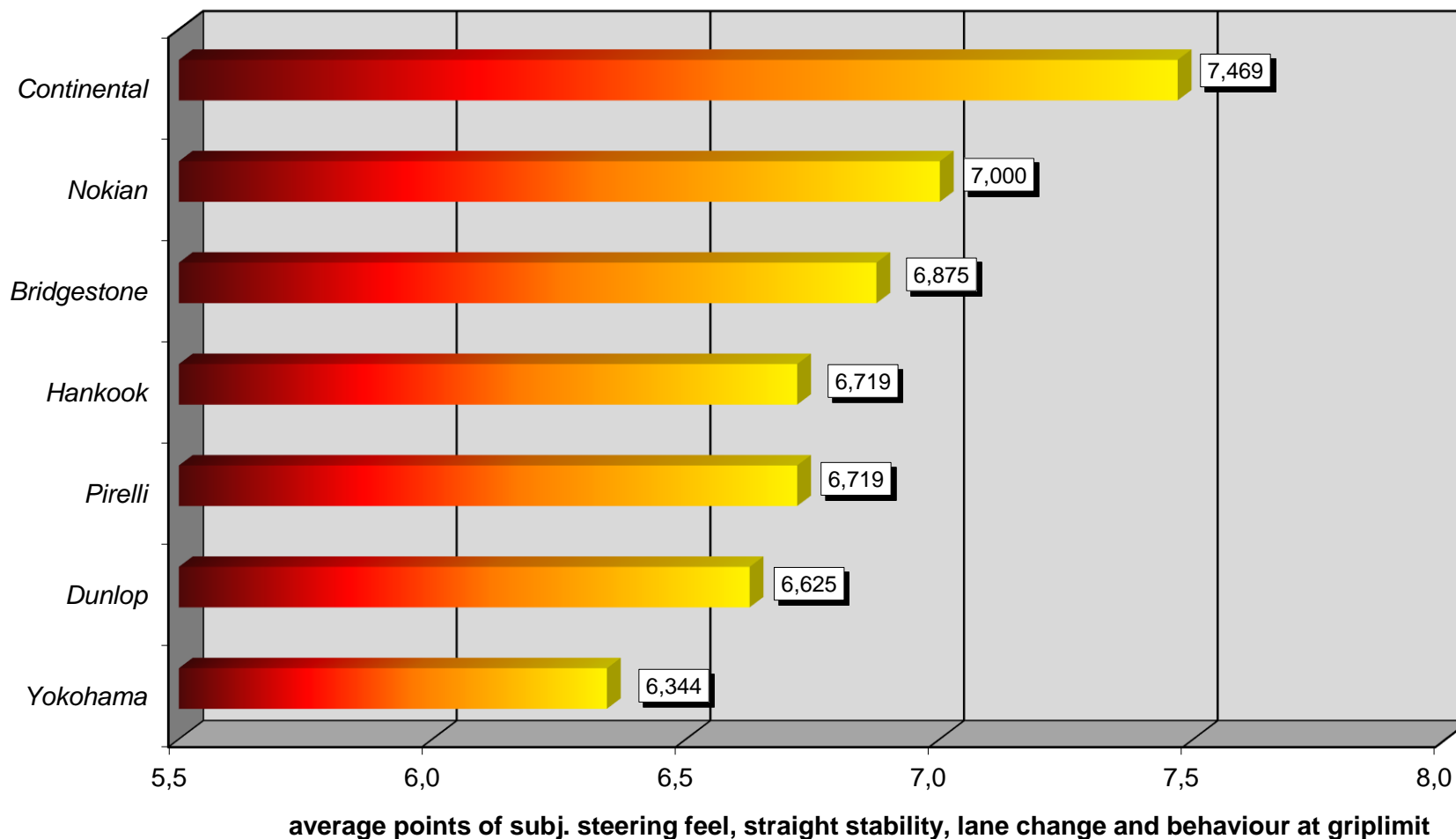




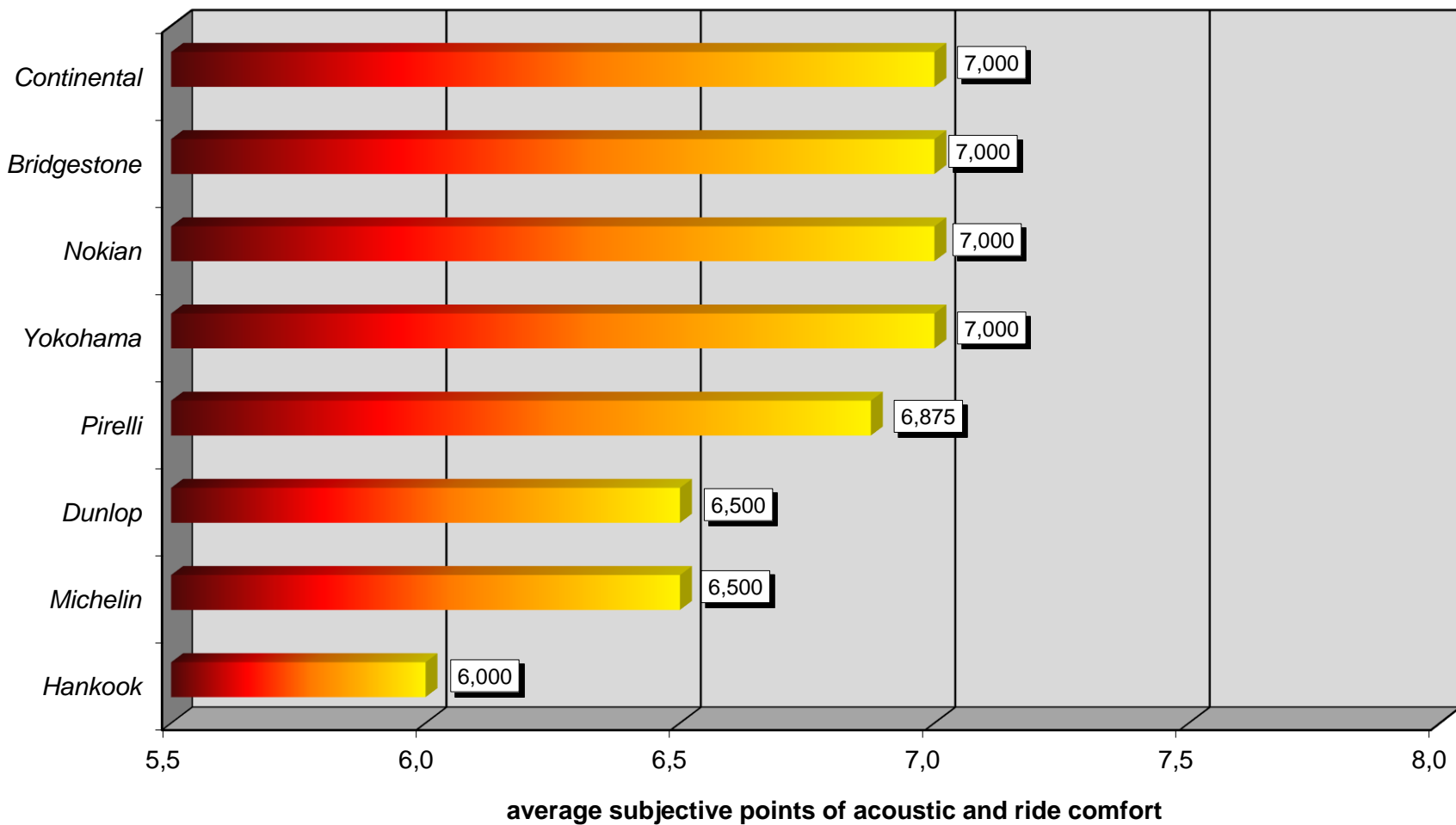
Autoklub ČR winter tire test 215/65 R 16 dry handling



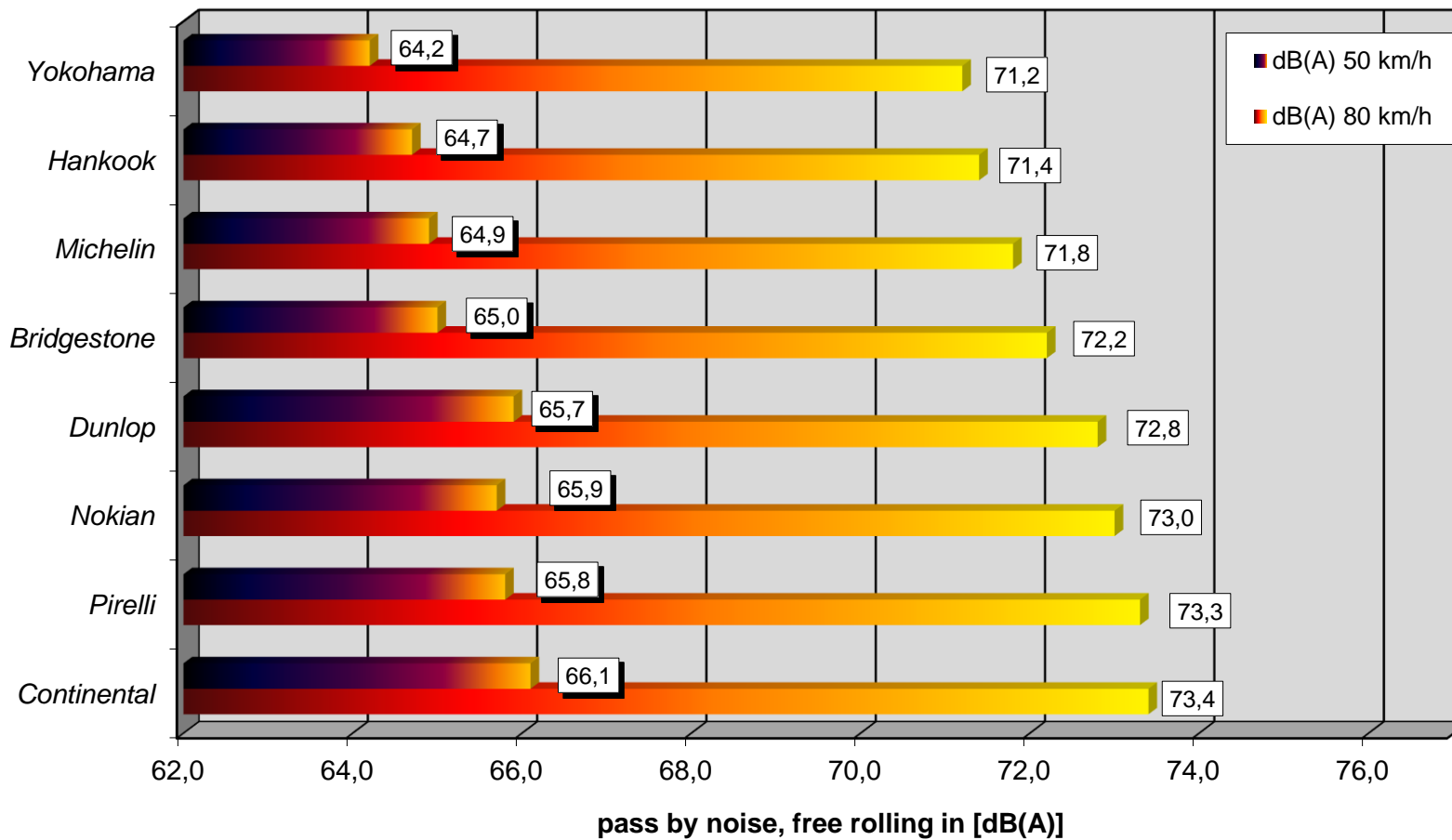
Autoklub ČR winter tire test 215/65 R 16 dry handling subjective performance



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

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	102 V	98	109,9	0,778	-
Nokian	WR D4	102 H	98	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

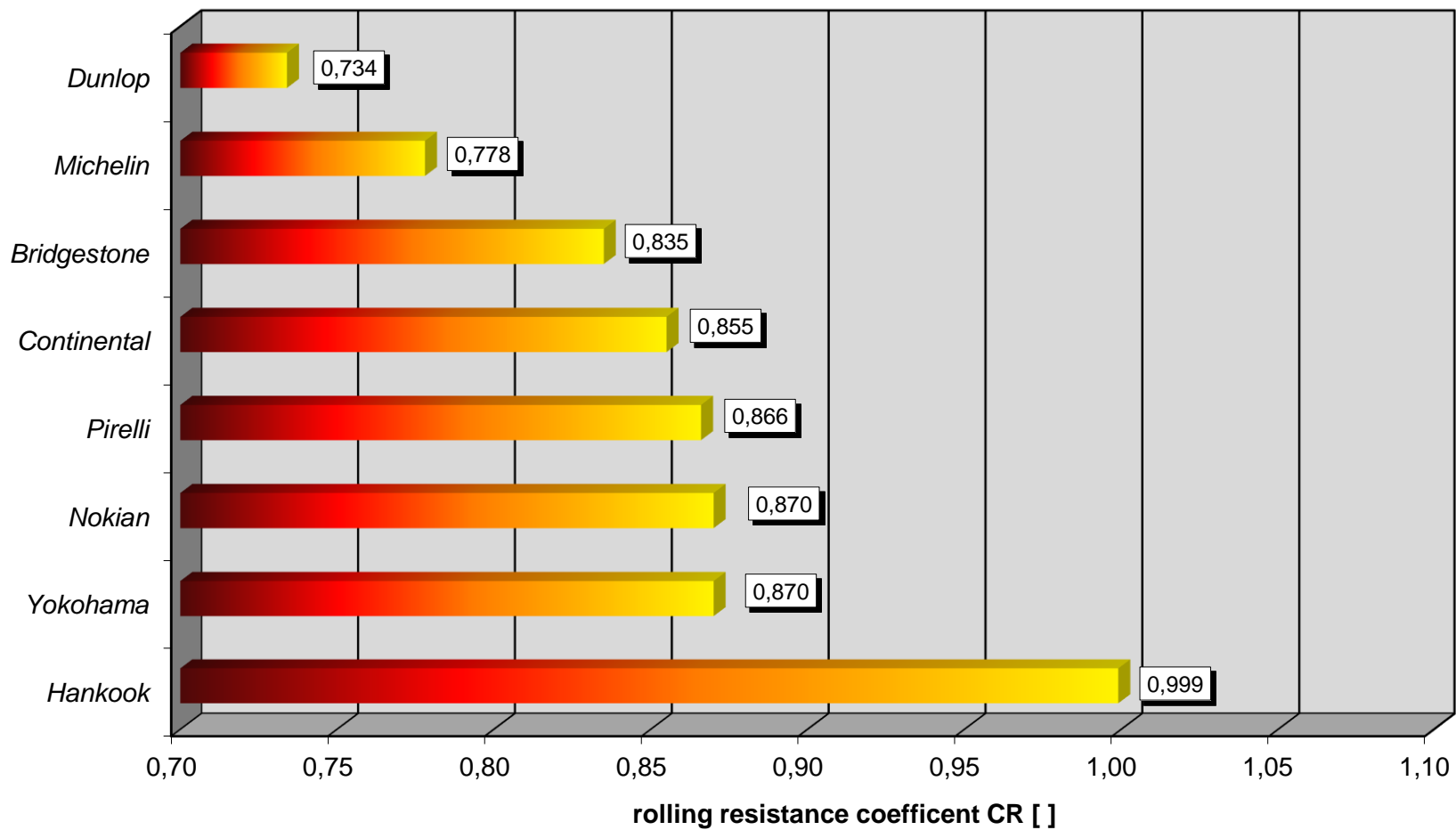
Load SL 5886 N

Infl.Pressure SL 2,1 bar

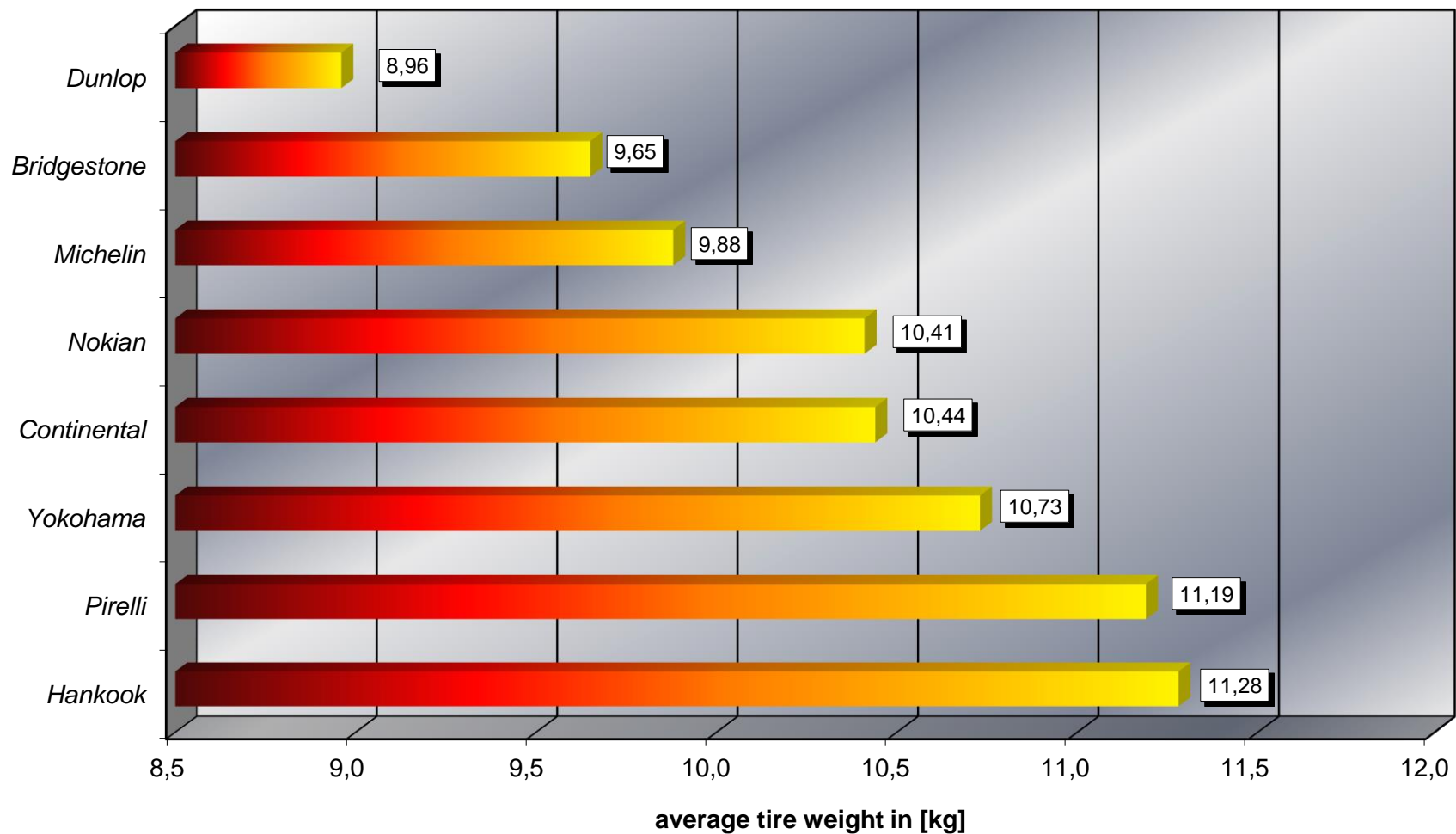
Calculation % = $CR_{(Reference)} / CR_{(Test)} \times 100$



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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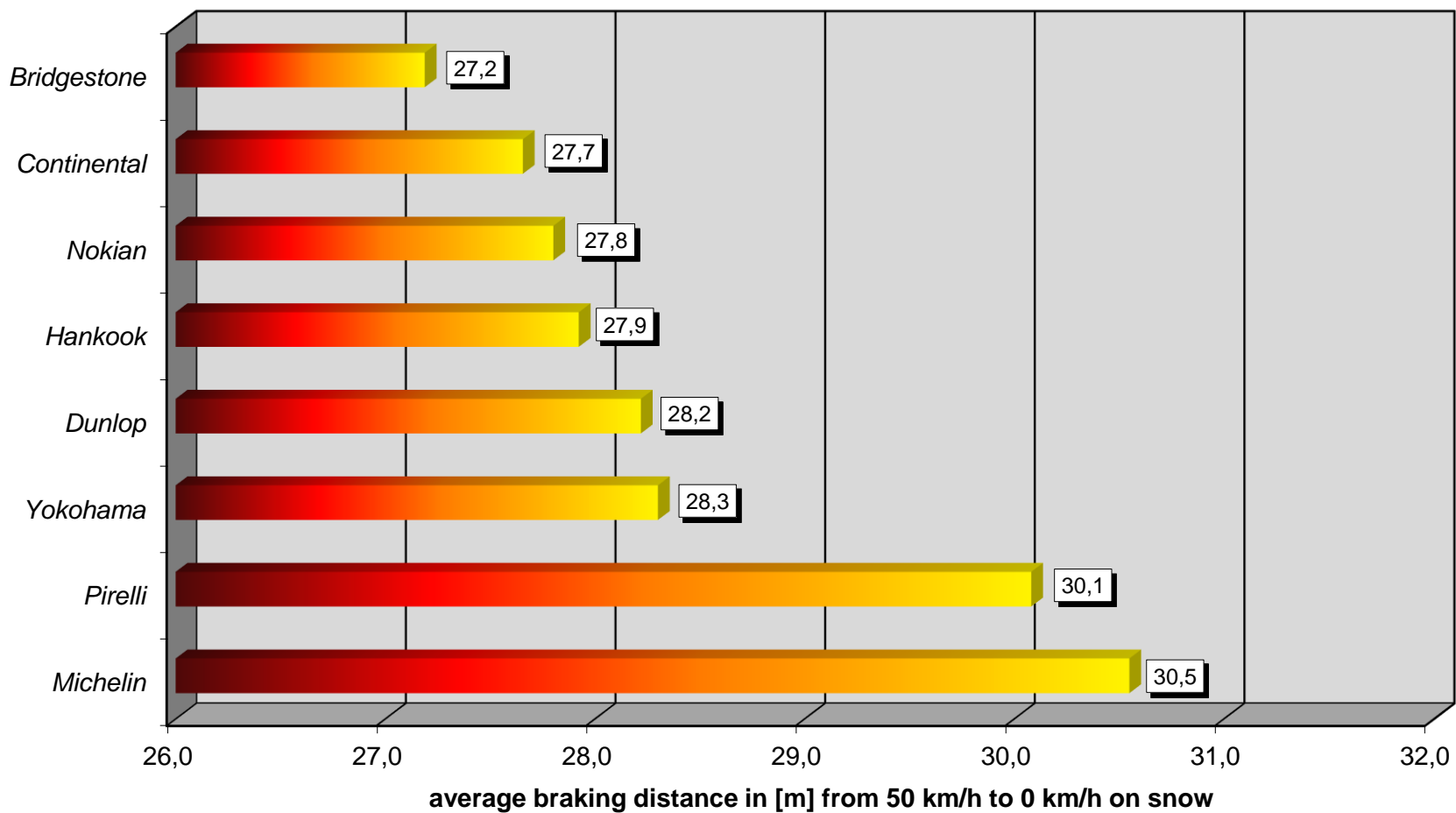


**SNOW
results**

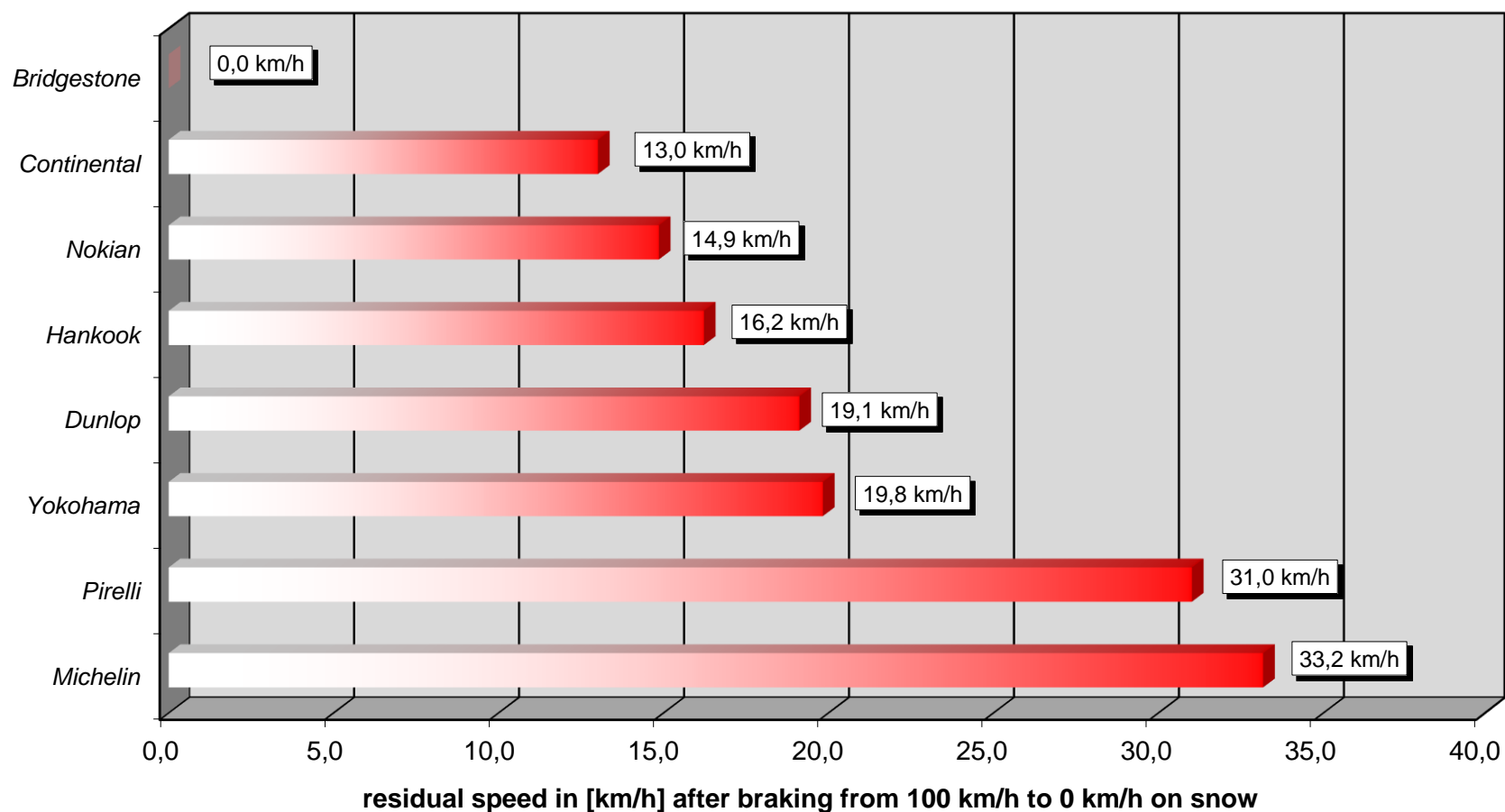
**Winter Tire Test
215/65 R 16**

**Ulrichen
23.01. - 25.01.2017**

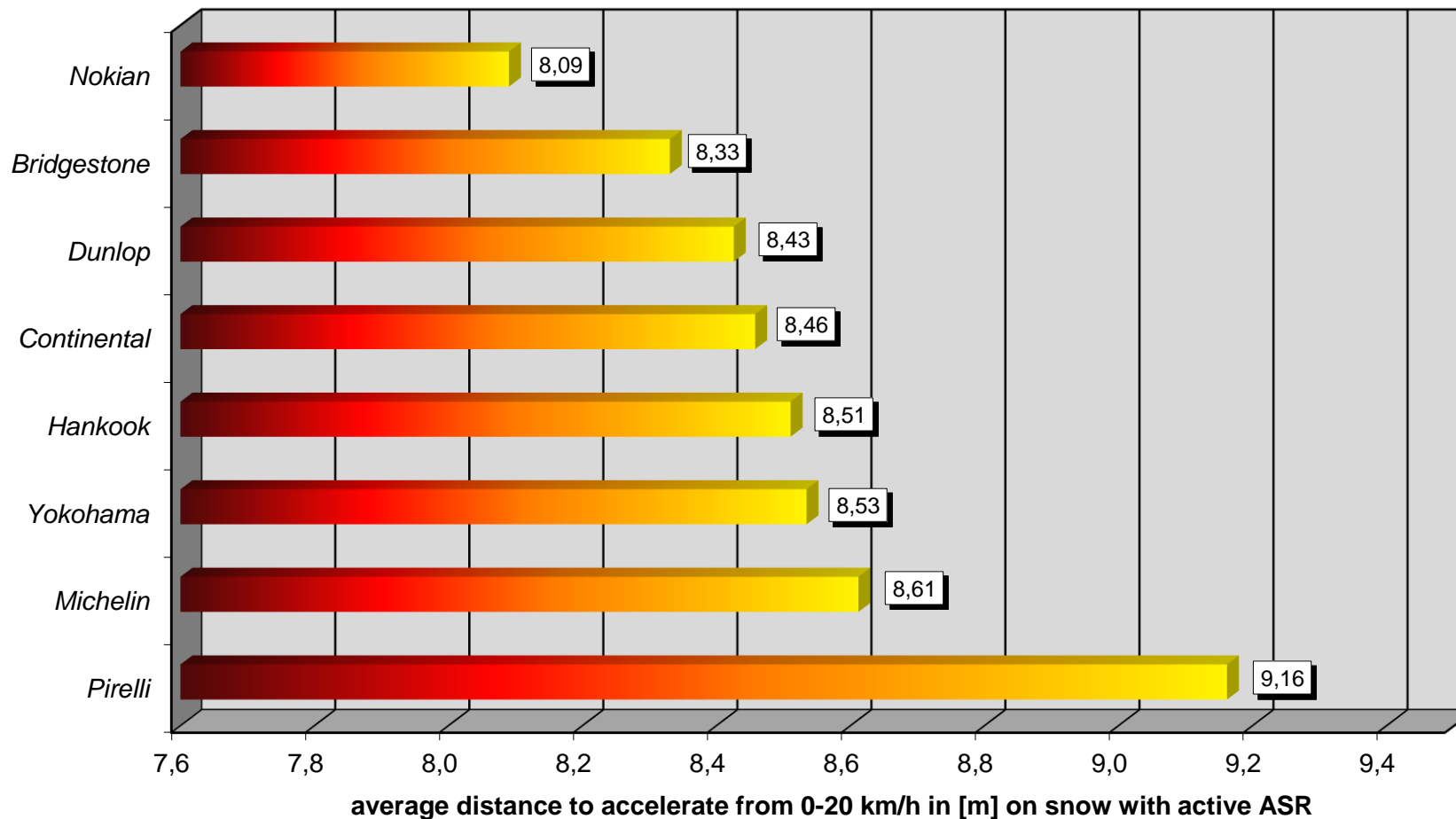
Autoklub ČR winter tire test 215/65 R 16 4-wheel ABS snow braking, -15/-20°C



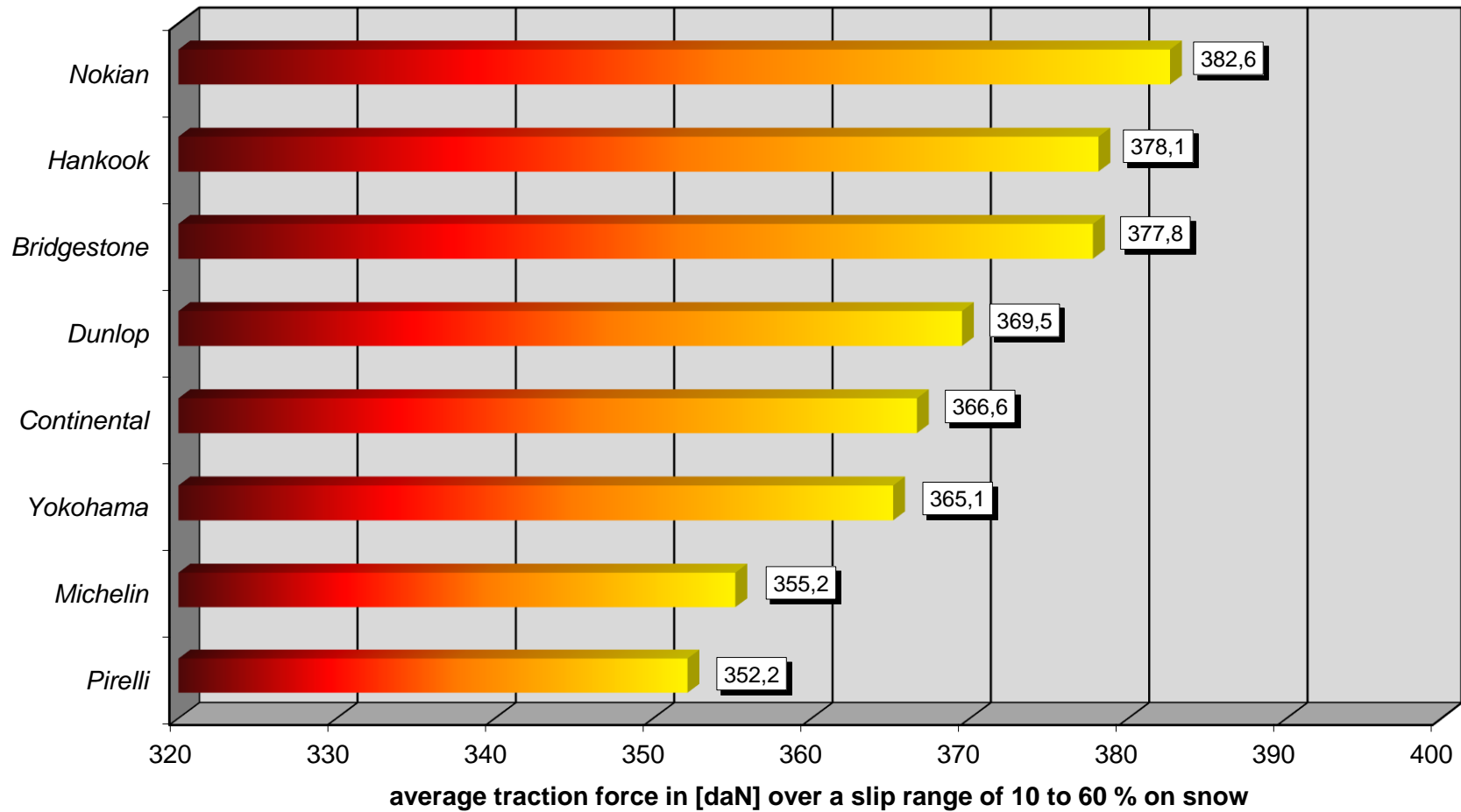
Autoklub ČR winter tire test 215/65 R 16 4-Rad ABS snow braking residual speed, after the best winter tire already stopped



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

