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Warning! Motorsports can be dangerous! Participate at your own risk.

By sponsoring a wide range of motorsports competitions and teams at home and abroad, Hankook Tire is inspiring drivers worldwide to overcome the challenges posed by speed and to take on new possibilities. Through Hankook Tire's innovative technology, drivers around the world can enjoy achieving new goals and setting new records. Hankook Tire is raising the bar of motorsports for a passionate driving culture for those who are thrilled about the world of motorsports competition. Hankook Tire provides cutting—edge performance on the circuit. As the official partner of DTM, the 24H Series, Supercar Challenge, FARA USA, and TCR, Hankook Tires performance is proven in the most demanding of racing circuits around the world.



BEFORE YOU BEGIN - IMPORTANT SAFETY INFORMATION

TIRE USE

Hankook racing tires are specially designed and compounded solely for the purpose of motorsport competition. The use of Hankook racing tires on public roads may result in loss of traction, unexpected loss of vehicle control, or a sudden loss of tire pressure, resulting in possibly serious injury or death. No warranty is given to Hankook racing tires due to the limited conditions under which they operate and Hankook shall not be liable for damage arising from their use.

TIRE CARE

The tires should be stored in a controlled environment with cool temperatures and in darkness. High temperatures, direct sunlight, proximity to high voltage electric motors or welders should be avoided. The use of chemical treatments such as tire "soaking" or tread "softener" to alter the tire carcass or tread compound of any Hankook racing tire could result in premature or catastrophic tire failure and serious injury or death.

TIRE FITTING

The fitting of Hankook racing tires should always be carried out with special care to avoid damage to the bead area, which is of critical importance to tubeless tires. To ensure this you should always have the tires fitted by a certified dealership that understands the handling of competition tires. The use of a

tire fitting machine is strongly recommended to avoid damage to the wheel or tire. Tires should not be inflated over 40psi (2.7bar). The use of Hankook racing tires on wheels that do not meet industry standards can cause the tire and the wheel assembly to fail and explode with force sufficient to cause serious injury or death.

TIRE PRESSURE

The correct pressure varies according to driver, car and circuit conditions – it is often a matter of personal preference. But sufficient pressure must always be used to avoid structural damage to the tire.

SAFETY CONSIDERATIONS

- Never race on an underinflated tire.
- We strongly discourage soaking of tires. It can be hazardous to the person soaking the tires, the environment and the tire itself. The additional complexity and components in radial tires puts the product at risk when solvents are used in an attempt to "soften" the tread area of the tire.
- We strongly discourage pressure bleeders.
 A bleeder is another item that can fail. With a proper pressure management program you can obtain repeatable and correct hot pressures without the risk of additional components.
- · Always inspect each tire thoroughly, prior to and immediately following each use.
- · Get familiar with your new tires before you

use them.

TIRE STORAGE TIPS

In order to preserve the characteristics and properties of tires, there are some important rules to be observed during storage. The following should be avoided: Direct and prolonged exposure to sunlight, sources of high heat and humidity, long term storage in stacks.

Exposure to low temperatures (50 °F / 10 °C). The presence of solvents, lubricants, fuel and other chemical products. Equipment causing ozone emission (transformers, welding units, electric motors,

• The storage space must be dry, well—ventilated, without direct light and reserved for tires. Racks suitable for storing tires vertically should be used to avoid exercising pressure on the carcasses.

TIRE AGING

etc.).

- Tires age even when not used or if they are only used occasionally; excessive aging of tires may lead to loss of grip.
- Remove from usage tires presenting clear signs of aging or fatigue (cracking of the rubber of the outer tread, of the shoulder, of the bead, deformation, etc.). When in doubt, contact a tire professional



HOW TO READ THE TIRES



COMPETITION TIRE SIZE MARKINGS

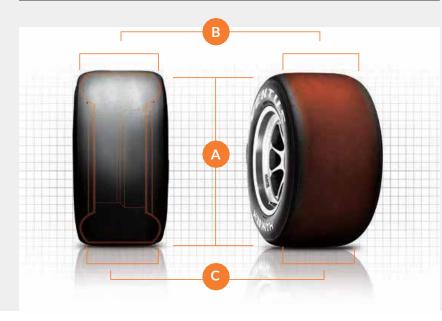
280/660R18

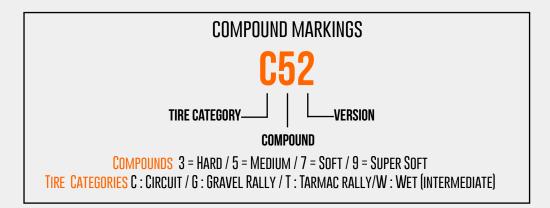
280: Tread arc width (MM) C 660: Overall Diameter (MM) A R: RADIAL

18: RIM DIAMETER (INCH)

275: SECTION WIDTH (MM) B

35: ASPECT RATIO
18: RIM DIAMETER (INCH)





PROPER COMPOUND SELECTION

CATEGORY	COMPOUND	SUGGESTED USE
	C5	DRY WEATHER SURFACE
CIRCUIT SLICK AND Z214	C7	DRY COOL WEATHER, SMOOTH SURFACE DRY HOT WEATHER SURFACE (FORMULA CARS)
	C9	DRY WEATHER SURFACE (FORMULA CARS)
RS4		ONLY STANDARD ENDURANCE COMPOUND AVAILABLE
WET	W5	WET OR DAMP ASPHALT

These are only guidelines. All conditions of the vehicle, race track, weather, etc. should be considered. optimum temperature TYPICALLY FALLS within a spread of about 20°C between the inner and outer part of the tread. For example, inner 90°C, middle 80°C, outer 70°C.





BEFORE YOU BEGIN - TIRE CARE INFORMATION

MOUNTING

Hankook tires should be mounted and installed on the car according to the directional arrows on the sidewall. After one or two heat cycles, the tires can be rotated on the car. Worn tires can be dismounted and flipped on the wheel to extend tread life.

SCUFFING

The longevity and consistency of the grip level can be increased by properly scuffing a new set of race tires. It's very important not to run hard for an entire session on new tires. Think of it like breaking in a new engine, or bedding in new brake pads. To scuff a set of tires, start by taking one or two moderately paced laps to gradually bring the tires up to operating temperature, and then run one hard lap followed by a cool down lap. The ideal situation would be to stop and remove the tires from the car and allow them to cool down to ambient temperature before running them again. When running an entire session on a new set of tires without stopping, one should still follow the scuffing procedure at the beginning of the session before turning laps at a

fast pace. It's also very important to run a slower lap at some point in the middle of the session to allow the tires to cool off before running hard laps again.

PRESSURE

Moisture inside of a tire can cause excessive pressure build-up and handling problems. After purchasing a new set of mounted tires, the valve cores should be removed to purge out any moisture, and the tire should be inflated with dry air or nitrogen. When switching from another brand of tires to Hankook tires, it isn't necessary to change cold or hot inflation pressures. Start with the same settings and then make adjustments to achieve the desired handling characteristics. An approximate hot pressure target for DOT approved R-compound road racing tires is 40 psi. It could be a few pounds less for lighter cars, and a few pounds more for heavier cars. FWD cars may require higher inflation pressure in the front tires. Slicks for formula cars and sports racers should initially target for 22 psi hot. Changing hot inflation pressures to alter the handling characteristics of the car is a fine tuning adjustment. Improving the overall grip should be done with spring

rates, dampers, sway bars, ride heights, alignment settings, etc.

WEAR

In addition to utilizing tread temperature data to evaluate how the car and tires are performing; the inside and outside tread wear indicator pins should be measured with a depth gauge to determine if camber or pressure changes need to be made. If the inside of the tire is worn more, camber may need to be reduced. If the outside is worn more, it can mean camber will need to be increased, or inflation pressure will need to be increased to prevent the tire from rolling over on the outside shoulder.

HEAT CYCLES

The number of useful heat cycles that a set of race tires can run is dependent upon whether or not they were properly scuffed, ambient and track temperature, track surface, length of each track session, and most importantly – driving style. Aggressive driving, such as throwing the car into the corner entry and sliding through the middle and exit,



BEFORE YOU BEGIN - TIRE CARE INFORMATION

can excessively increase tire wear and reduce the consistency in grip level. A smooth driving style will result in faster lap times and better tire performance.

TEMPERATURE (°C)

Tread temperature will vary depending on ambient and track temperature, the type of circuit, and the type of car. The temperature should be within a range of 70 to 105 degrees when measured in pit lane. Optimum grip level is at 80 to 95 degrees. A probe type pyrometer is recommended for temperature measurements and a consistent technique must be used. Check the tires in the same location (inside, middle, outside) and in the same order (LF, RF, RR, LR) each time the car comes to pit lane.

The data should be recorded as follows to make it easier to interpret:

 Out LF In
 In RF Out
 Out LR in
 in RR out

 80 88 95
 95 88 80
 80 88 95
 95 88 80

Depending on the width of the tire, the inside tread temperature should be 10 to 20 degrees hotter than the outside. If the inside is too hot, camber may need to be

reduced. If the outside is too hot, camber will need to be increased or inflation. pressure will need to be increased to prevent the tire from rolling over on the outside shoulder. If the front tires are hotter than the rear tires, it may show an understeer condition. Alternatively, if the rear tires are hotter than the front tires, it can represent an oversteer condition. However, this isn't the case for all types of vehicles. The front tires on FWD cars are usually always hotter and the rear tires on high-horsepower RWD cars may be hotter due to wheel spin. The tires should be relatively new when using tread temperature data to interpret car setup issues. Tires with a worn shoulder may give a misleading temperature spread across the tire because the thin area doesn't hold as much heat as thicker areas.

CAUTION

Consumers and installers are advised to follow these instructions during subfreezing conditions: Do not operate the car with these tires, as the tires may suddenly fail. Always store these tires indoors at temperatures above 32°F or 0°C. Before mounting or dismounting,

store these tires for at least 24 hours in a temperature-controlled environment of 68°F/20°C or warmer. Remove these tires from the vehicle and deflate to half the normal air pressure during prolonged periods of non-use or storage. Do not move a car that is in storage with these tires, as the tires may crack. If storing outdoors, please avoid direct sunlight.

STORAGE

As seen in the picture below, tires stored below freezing temperatures (32°F or 0°C) will lose rubber compound flexibility and may experience cracking when operated under such conditions.



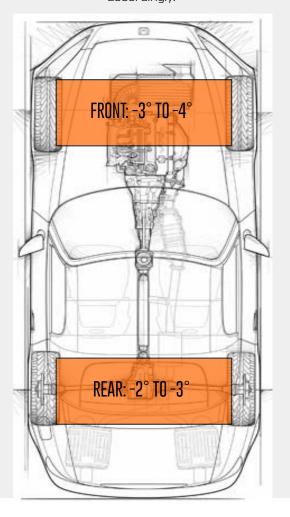


SETUP RECOMMENDATIONS

TRADITIONAL SETUP RECOMMENDATION

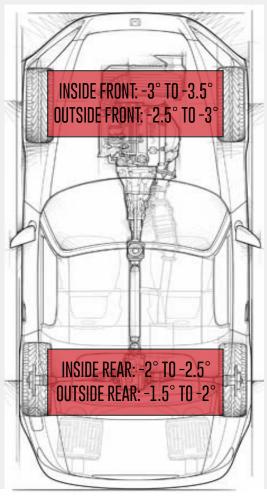
The only way to determine the best setup is to run the car, then measure tire temperatures and pressures.

As a guideline, most cars on most road courses should start with the camber settings below and then adjust accordingly:



ROVAL SETUP RECOMMENDATION

For tracks with sections of high-banking, or "rovals", the camber settings must be significantly reduced because the track's banking dramatically increases the load on the tires. In this case, cambers should be set as follows:



IMPORTANT INFORMATION

HANKOOK TIRES HAVE A VERY STIFF SIDEWALL CONSTRUCTION. THIS REQUIRES YOU TO USE LESS CAMBER WHEN DRIVING ON HANKOOK TIRES THAN YOU WOULD TYPICALLY USE ON OTHER SLICK TIRES.

When determining optimal camber settings, a number of variables must be taken into account including track layout, suspension geometry, aerodynamic downforce and maximum speed on the track. When it comes to setting the camber, you cannot determine in advance exactly what the ideal setup will be — the only way to decide this is to run the car, then measure tire temperatures and pressures.

Most cars on most road courses should run camber settings as stated in the chart to the left as a baseline and then adjust accordingly. Cars using the wider 300/680R18 and 320/710R18 tires will perform better with camber settings closer to -3.0° in the front and -2.0° in the rear. When competing on tracks with the majority of turns in only one direction (examples: Lime Rock, Road Atlanta) it may be beneficial to run less negative camber on the inside wheels. Also, when driving on a track that requires more hard braking, your car may benefit from less negative camber. This should improve straight—line braking but will also typically cause a slight loss of grip in the middle of the corners.

For tracks with sections of high-banking, or "rovals", the camber settings must be significantly reduced because the track's banking dramatically increases the load on the tires. As a starting guideline, cambers should be set as shown on the image on the right.

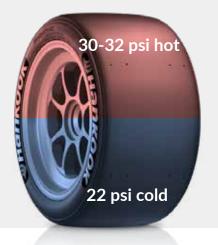


TEMPERATURE AND PRESSURE

SAMPLE TIRE READING CHART										
		AMPLE TIKE N								
	LEFT FRONT		RIGHT FRONT							
12	11	10	1	2	3					
AVERA	GE TEMP		Aver <i>a</i>	GE TEMP						
PR. COLD	PR. HOT	PR. GAIN	PR. COLD	PR. HOT	PR. GAIN					
FRONT AVERAGE:										
	DRIVER: _									
	LEFT REAR		RIGHT REAR							
9	8	7	4	5	6					
AVERA	GE TEMP		AVERAGE TEMP							
PR. COLD	PR. HOT	PR. GAIN	PR. COLD	PR. HOT	PR. GAIN					
	ŀ	REAR AVERAGI	:	_						

TIRE PRESSURE

Hankook slicks are designed to operate at pressures ranging from 30 psi to 32 psi hot. A cold pressure of around 22 psi should be a good starting point, which can then be fine-tuned to your car's setup and your driving style. You should never go below 19 psi cold, to avoid any risk of bead unseating. Temperature readings should be taken with a probe-type device. Non-contact infrared devices are not recommended as they only take surface temperatures which cool at a much quicker rate and are not reliable. Both pyrometers and pressure gauges should be periodically calibrated or verified against calibrated equipment. On most road courses a minimum of six hot laps should be run before considering any changes based on temperature and pressure readings. Taking readings before the tires have reached stable operating conditions is not recommended and may lead you to an incorrect setup. After a hot lap session, temperatures should be taken at three points across the tire: first the inside shoulder of the tire, then the center, and finallythe outer shoulder. Readings on the outboard sections of the tire should be taken about 11/2" from the shoulder. Taking temperatures too close to the "corner" of the shoulder will give an inaccurate reading. Due to heat dissipation, time plays a critical role in collecting the most accurate data. It is recommended that you begin with the outside rear tire and be sure to focus on the tread temperatures first.





F200 SLICK TIRE SPECIFICATIONS

VENTUS F200 SLICK TIRE SPECIFICATIONS

CIZE	RIM WII	DTH	OVERALL	DIAMETER	SECTION	WIDTH	TREAD	WIDTH	REVS PER KM/M	
SIZE	RECOMMEND	OPTIMUM	MM	IN	MM	IN	MM	IN	KM	MILE
180/550R13	8.0-9.0	8.5	550	21.7	238	9.4	200	7.9	600	957
230/560R13	8.5-10.5	10	555	21,8	265	10.4	230	9.1	595	953
240/570R13	10.0-11.0	10.5	574	22.6	290	11.4	250	9.8	575	919
280/580R13	11.0-12.5	12	575	22.6	318	12.5	283	11.1	574	919
200/580R15	7.0-8.5	7.5	581	22.9	220	8.7	205	8.1	568	907
260/610R16	9.0-10.5	10	607	23.9	276	10.9	260	10.2	544	869
215/615R17	7.5-9.0	8	618	24.3	230	9.1	215	8.5	534	855
235/620R17	8.0-9.5	9	618	24.3	247	9.7	234	9.2	534	855
240/640R18	8.0-9.5	9	644	25.4	245	9.6	225	8.9	513	818
250/640R18	8.5-10	9.5	637	25.1	262	10.3	250	9.8	515	828
260/660R18	9.0-10.5	10	661	26	282	11.1	254	10	500	798
280/650R18	10.0-11.5	11	656	25.8	295	11.6	280	11	503	804
280/660R18	10.0-11.5	11	661	26	304	12	274	10.8	500	798
280/680R18	10.0-11.5	11	680	26.8	306	12	285	11.2	486	776
300/660R18	11.5-12.5	12	656	25.8	325	12.8	300	11.18	478	769
300/680R18	11.5-13.0	12	675	26.6	331	13	300	11.8	489	782
320/710R18	12.0-13.5	13	706	27.8	350	13.8	318	12.5	468	747
250/650R19	8.5-10.0	9.5	647	25.5	264	10.4	250	9.8	507	816
300/680R19	11.0-12.5	11.5	677	26.7	320	12.6	300	11.8	484	779
320/710R19	12.0-13.5	13	705	27.8	345	13.6	318	12.5	465	748











Z207 RAIN TIRE SPECIFICATIONS

VENTUS Z207 RAIN TIRE SPECIFICATIONS

TENTO ZEO TIANTINE DI CONTONIO												
SIZE -	RIM WIDTH		OVERALL DIAMETER		SECTION	SECTION WIDTH		TREAD WIDTH		TREAD DEPTH		R KM/M
SIZE	RECOMMEND	OPTIMUM	MM	IN	MM	IN	MM	IN	MM	IN/32"	KM	MILE
180/550R13	8.0-9.0	8.5	550	21.7	238	9.4	200	7.9	5	6.1	600	957
230/560R13	9.5-10.5	8.5	556	21.9	282	11.1	230	9.1	6	7.6	594	956
240/570R13	10.0-11.0	10.5	574	22.6	290	11.4	250	9.8	6.1	7.7	575	919
280/580R13	11.5-12.5	10.5	576	22.7	335	13.2	280	11.0	6	7.6	573	923
200/580R15	7.0-8.5	7.5	581	22.9	220	8.7	205	8.1	5.1	6.4	568	907
260/610R16	9.0-10.5	10	607	23.9	276	10.9	260	10.2	5.1	6.4	544	869
200/620R17	7.0-8.5	8	623	24.5	213	8.4	200	7.9	5.1	6.4	530	848
235/620R17	8.0-9.5	9	618	24.3	247	9.7	234	9.2	5.1	6.4	534	855
240/640R18	8.0-9.5	9	644	25.4	245	9.6	225	8.9	6.1	7.7	513	818
280/660R18	10.0-11.5	11	660	26	300	11.8	274	10.8	6	7.6	500	799
300/660R18	11.5-12.5	12	656	25.8	325	12.8	300	11.18	6	7.6	478	769
300/680R18	11.5-13.0	12	677	26.7	330	13	300	11.8	6.8	8.6	488	779
320/710R18	12.0-13.5	13	707	27.8	350	13.8	318	12.5	6.8	8.6	467	746
320/710R19	12.0-13.5	13	705	27.8	345	13.6	318	12.5	7	8.8	465	748













VENTUS Z214 TIRE SPECIFICATIONS

CIZE	RIM WIDTH		OVERALL I	OVERALL DIAMETER		SECTION WIDTH		TREAD WIDTH		TREAR DEPTH		R KM/M
SIZE	RECOMMEND	OPTIMUM	ММ	IN	MM	IN	MM	IN	MM	IN	KM	MILE
205/50ZR15	6.5-8.0	7	584	23	213	8.4	194	7.6	3.5	4.4	565	904
225/45ZR15	7.0-8.5	7.5	580	22.8	224	8.8	214	8.4	3.5	4.4	569	910
225/45ZR17	7.0-8.5	7.5	632	24.9	228	9	212	8.3	3.5	4.4	522	835
245/40ZR17	8.0-9.5	8.5	625	24.6	247	9.7	232	9.1	3.5	4.4	528	844
275/40ZR17	9.0-10.5	9.5	648	25.5	276	10.9	260	10.2	3.5	4.4	510	814
245/35ZR18	8.0-9.5	8.5	627	24.7	247	9.7	232	9.1	3.5	4.4	527	842
275/35ZR18	9.0-11.0	9.5	647	25.5	277	10.9	260	10.2	3.5	4.4	510	816
315/30ZR18	11.5-12.5	12	656	25.8	325	12.8	300	11.8	3.5	4.4	478	769













VENTUS RS-4 TIRE SPECIFICATIONS

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CIZE	RIM WIDTH		OVERALL DIAMETER		SECTIO	SECTION WIDTH		TREAD WIDTH		DEPTH	REVS PER KM/M	
SIZE	RECOMMEND	OPTIMUM	MM	IN	ММ	IN	ММ	IN	ММ	IN	KM	MILE
195/50R15V XL	5.5-7.0	6	577	22.7	201	7.9	182	7.2	7	8.8	572	914
225/45ZR15W	7.0-8.5	7.5	583	23	225	8.9	210	8.3	7	8.8	566	905
245/40ZR15W	8.0-9.5	8.5	577	22.7	248	9.8	232	9.1	7	8.8	572	914
225/50ZR16W	6.0-8.0	7	632	24.9	233	9.2	210	8.3	7	8.8	522	835
245/40ZR17W	8.0-9.5	8.5	628	24.7	248	9.8	232	9.1	7	8.8	526	840
255/40ZR17W XL	8.5-10	9.0	636	25	260	10.2	242	9.5	7	8.8	519	830
245/40ZR18W	8.0-9.5	8.5	653	25.7	248	9.8	232	9.1	7	8.8	506	808
265/35ZR18W XL	9.0-10.5	9.5	643	25.3	271	10.7	252	9.9	7	8.8	514	821
275/35ZR18W	9.0-11.0	9.5	649	25.6	278	10.9	262	10.3	7	8.8	509	813
285/35ZR18W XL	9.5 -11.0	10	657	25.9	290	11.4	270	10.6	7	8.8	583	803
295/40ZR18W	10.0-11.5	10.5	693	27.3	301	11.9	280	11	7	8.8	476	761
245/35ZR19W	8.0-9.5	8.5	655	25.8	258	9.8	232	9.1	7	8.8	504	806
275/35ZR19W	9.0-11.0	9.5	675	26.6	278	10.9	262	10.3	7	8,8	489	782
305/30ZR19W XL	10.5-11.5	11	667	26.3	313	12.3	290	11.4	7	8.8	495	791











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Warning! Motorsports can be dangerous! Participate at your own risk.

Disclaimer

This brochure has been developed to assist you in getting the most out of your tires during a given race or track session. This information is general in nature and numerous variables such as track conditions, car setup and driver preference will play an important role in determining the optimum race configuration for your car. Setup information contained in this brochure is for your consideration only and is provided as a convenience to assist you with your new tire purchase. It is up to you to determine the best setup for your application. It is illegal and dangerous to sell and or use race tires on public streets that have not passed FMVSS109 or ECE36 safety standards. Hankook DOT-approved race tires meet the department of transportation performance requirements, but are not intended for highway use. DOT-labelled Hankook racing tires are designed for racing use only. The prohibited use of Hankook racing tires on public roadways may result in loss of traction, unexpected loss of vehicle control, or sudden loss of tire pressure, resulting in possible serious injury or death. The use of chemical treatments such as tire "soaking" or tread "softener" to alter the tire carcass or tread compound of any Hankook racing tire could result in premature or catastrophic tire failure and serious injury or death. The use of Hankook racing tires on wheels that do not meet tire & rim association standards can cause the tire and wheel assembly to fail and explode with force sufficient to cause serious injury or death. TIRES SOLD BY HANKOOK MOTORSPORTS ARE CONSIDERED SPECIAL USE -HANKOOK MOTORSPORTS MAKES NO WARRANTIES WHATSOEVER, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE FOR ITS RACING OR COMPETITION TIRES. Hankook Motorsports expressly disclaims all such warranties. In no event shall Hankook Motorsports be liable for any kind of general, special, indirect or consequential damages arising from the use of racing or competition tires sold by Hankook Motorsports.