





MRF-AN INDIAN TYRE GIANT

MRF - India's largest tyre manufacturer has a rich and varied history. A company which started with the manufacture of balloons is today a USD 2.5 billion giant with products for every segment of the tyre market, from the smallest scooter tyre to tyres for giant earth movers. MRF is also the only Indian tyre company to manufacture aircraft tyres.

Cutting-edge R&D

MRF lays great emphasis on R&D and has grown to be the leader in all segments of the tyre market in India. The Corporate Technical Centre, located in Chennai, India, is responsible for materials development, process and product design and testing. The R&D centre uses the most advanced technologies for simulation, testing and design practices. It develops best-in-class tyres for Indian and international markets to exceed all aspects of customer expectation - safety, comfort and durability.

State-of-the-art manufacturing

Each of our factories is designed to rigorous standards with state-of-the-art automation and skilled technicians, to deliver tyres of the best quality every time. What started in a modest shed has grown to nine modern factories spread across India, each one geared to meet the exacting demands of our large customer base.

Global recognition

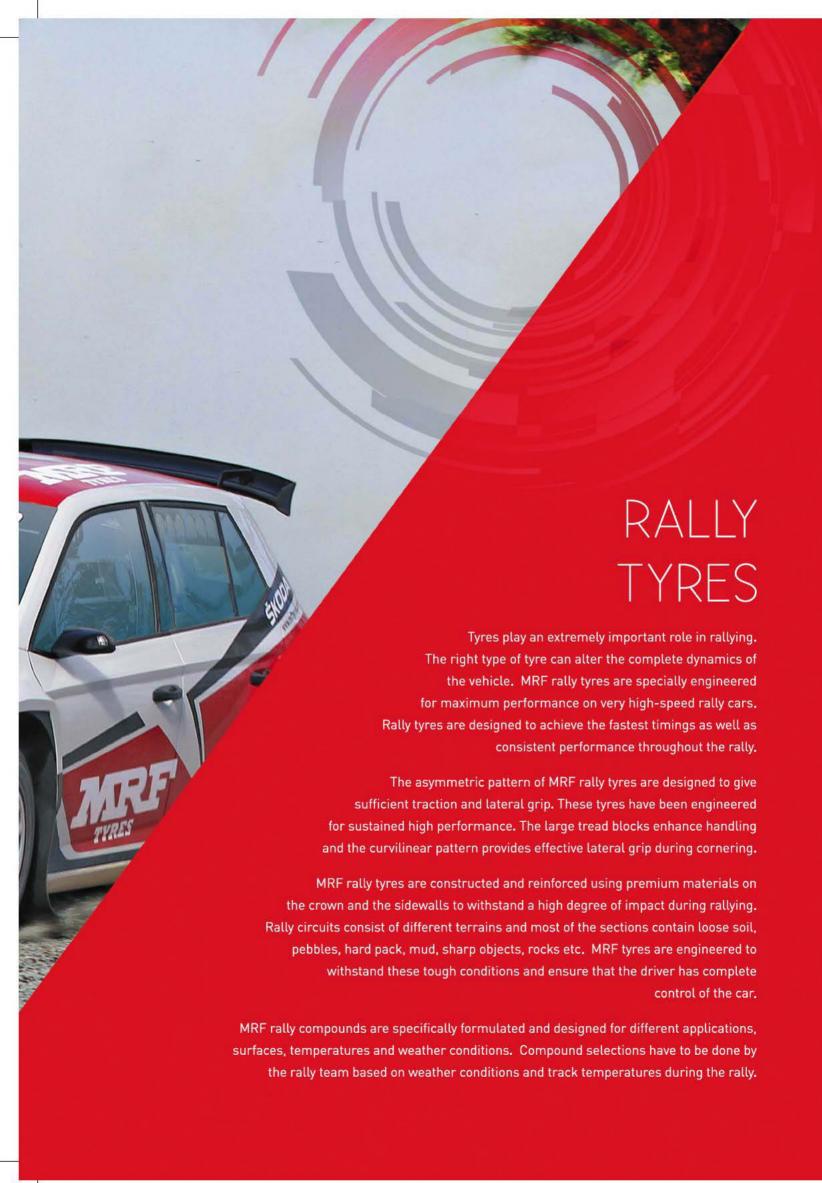
MRF has won the J.D. Power Asia Pacific Original Equipment Tyre Customer Satisfaction award a record 12 times in the last 16 years - a testament to the trust reposed in brand MRF by our customers.

A passion for motorsport

MRF is passionate about motorsports and has been associated with all forms of motorsports for over 4 decades. What started with touring car races, has led today to the power of Formula racing with India's own formula racing series - the MRF Challenge featuring the MRF Formula 2000, one of the fastest racing cars in Asia. The series has now gone international with rounds in Bahrain, Qatar, Dubai and Abu Dhabi and is now poised to make an entry into other geographies.

MRF has won 8 Asia Pacific Rally Championship (APRC) titles including the 2016 championship with the MRF-Skoda
Asia Pacific Rally Championship team.









ZDM2

Asymmetric and laterally oriented pattern. Aggressive pattern optimised for superior straight-line traction and cornering stability. The inside pattern gives excellent performance during acceleration and braking, while the lateral pattern gives high lateral grip during cornering.

BLOCKS & GROOVE WIDTH:

Wider groove width and more open pattern than ZDM3 and ZG2 to give the best performance on soft and very loose gravel.



ZDM3

Asymmetric and laterally oriented pattern. Optimised for superior straight-line traction and cornering stability. The inside pattern gives excellent performance during acceleration and braking, while the lateral pattern gives high lateral grip during cornering.

BLOCKS & GROOVE WIDTH:

Open pattern, good for soft and loose gravel.



ZG2

Asymmetric and curvilinear pattern. Optimised for superior straight-line traction and better cornering stability. The inside pattern gives excellent performance during acceleration and braking, while the curvilinear lateral pattern gives better lateral grip during cornering.

BLOCKS & GROOVE WIDTH:

Open pattern to give the best performance on soft and loose gravel.



ZGM

Symmetric pattern which fits on all four wheels with smaller size rims. Specially developed for front-wheel drive cars. Proven pattern with button stability for straight-line traction.



ZVH1

Symmetric pattern which can fit on all four wheels. Integrated buttons and narrow-groove width pattern give the best performance on hard packs with small pebbles and rough surfaces. Lesser tread depth to give more stability on very hard packs.



ZWM2

This pattern has been specifically designed for muddy soil. Large voids help in better traction. The orientation of the tread buttons give extra grip on slushy terrain. Narrow tread width design helps in digging into muddy soil easily to give good traction.





ZTW1

Designed for wet/damp tarmac (asphalt) rally/circuit racing. Its 3-rib pattern with water channeling enhances the performance when the tarmac is damp.



ZTW2

Designed for wet/damp tarmac (asphalt) rally/circuit racing. Its 4-rib pattern with improved water channeling enhances the performance when the tarmac is wet.



ZST

Its 4-rib pattern is exclusively designed to enhance performance on wet/damp tarmac (asphalt) rally conditions.

DRY TARMAC (ASPHALT) RALLY TYRE PATTERNS

FEATURES AND BENEFITS



ZTD2

Designed for dry tarmac (asphalt) rally/circuit racing. It's an evolution of the ZTW2 pattern with increased rigidity and durability. It can also be hand-cut and used when the tarmac is damp/wet.



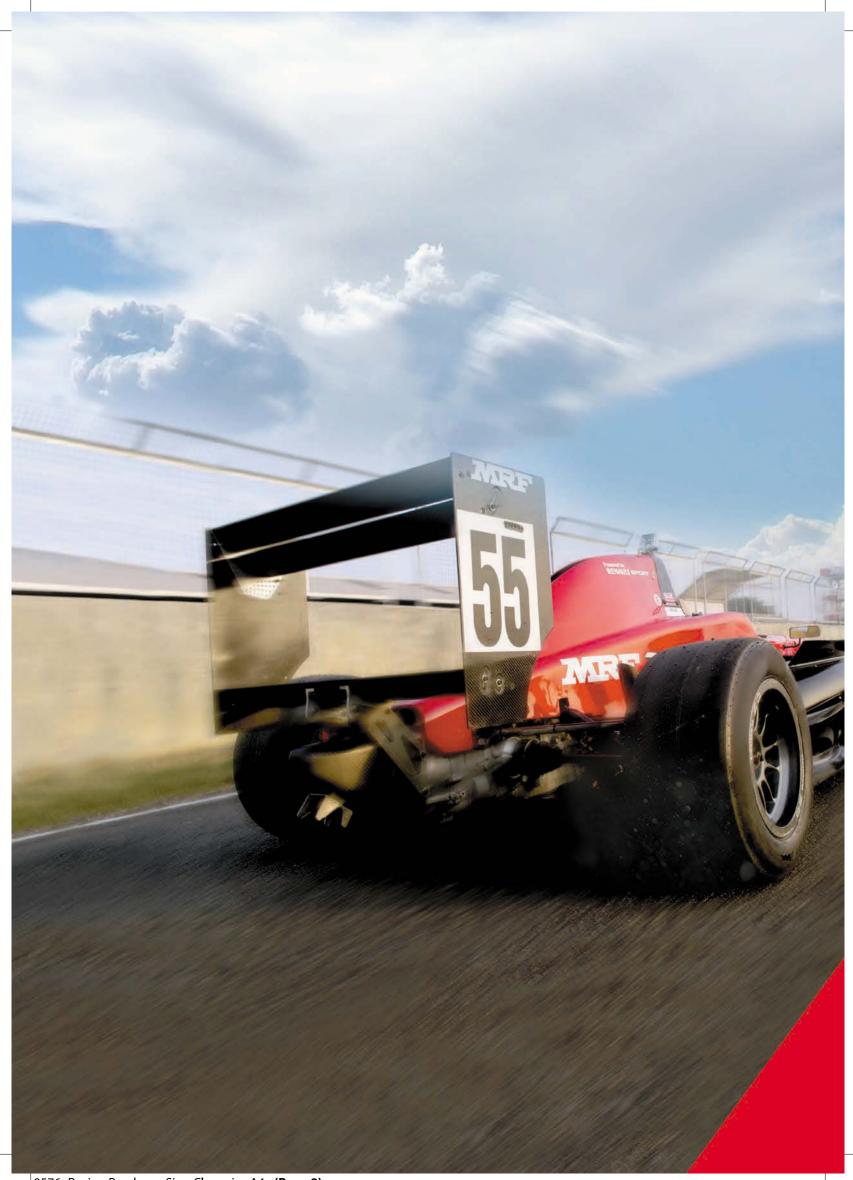
ZTI1

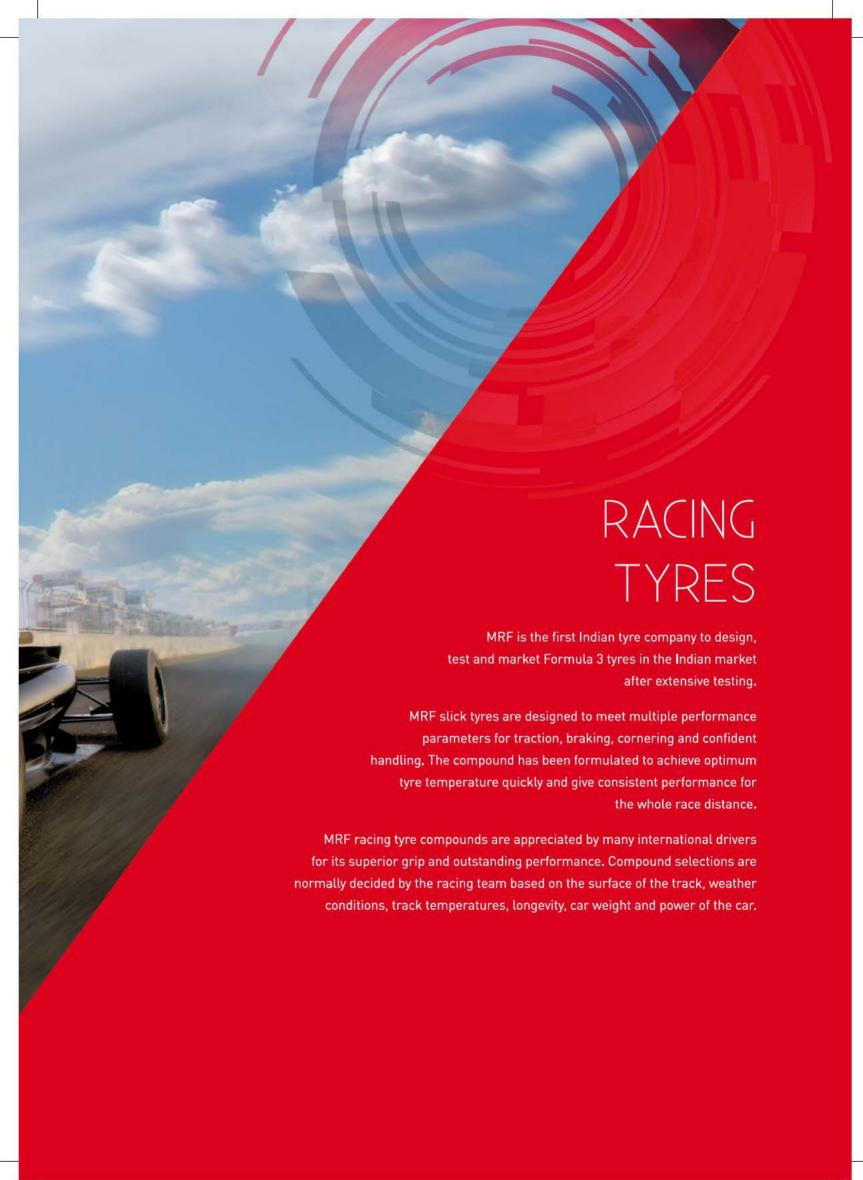
Designed for dry tarmac (asphalt) rally/circuit racing.

This intermediate pattern gives increased rigidity and durability.

Pattern can also be hand-cut and used when the tarmac is damp/wet.









CIRCUIT RACING DRY TYRES (SLICK)

FEATURES AND BENEFITS



ZTD1

Stiffness of the sidewall is tuned for individual sizes according to the need of the car. A special compound is used to give optimum tyre temperature quickly and a consistent performance throughout the race.



ZTI2

Designed for Dry Circuit Racing events and track days. This intermediate pattern can be used even when the track is a little damp. This tyre gives consistent performance with sustained grip and superior handling over multiple laps.

CIRCUIT RACING WET TYRES

FEATURES AND BENEFITS



ZTW4

Specifically designed for GT Car and wet/damp (asphalt) circuit racing. Compound optimised for wet grip. Good water channeling on wet tarmac.



ZTW5

Specifically designed for FORMULA-3 racing and wet/damp (asphalt) circuit racing. Compound optimised for wet grip. Good water channeling on wet tarmac.

TRACK DAY TYRES

FEATURES AND BENEFITS



ZTR

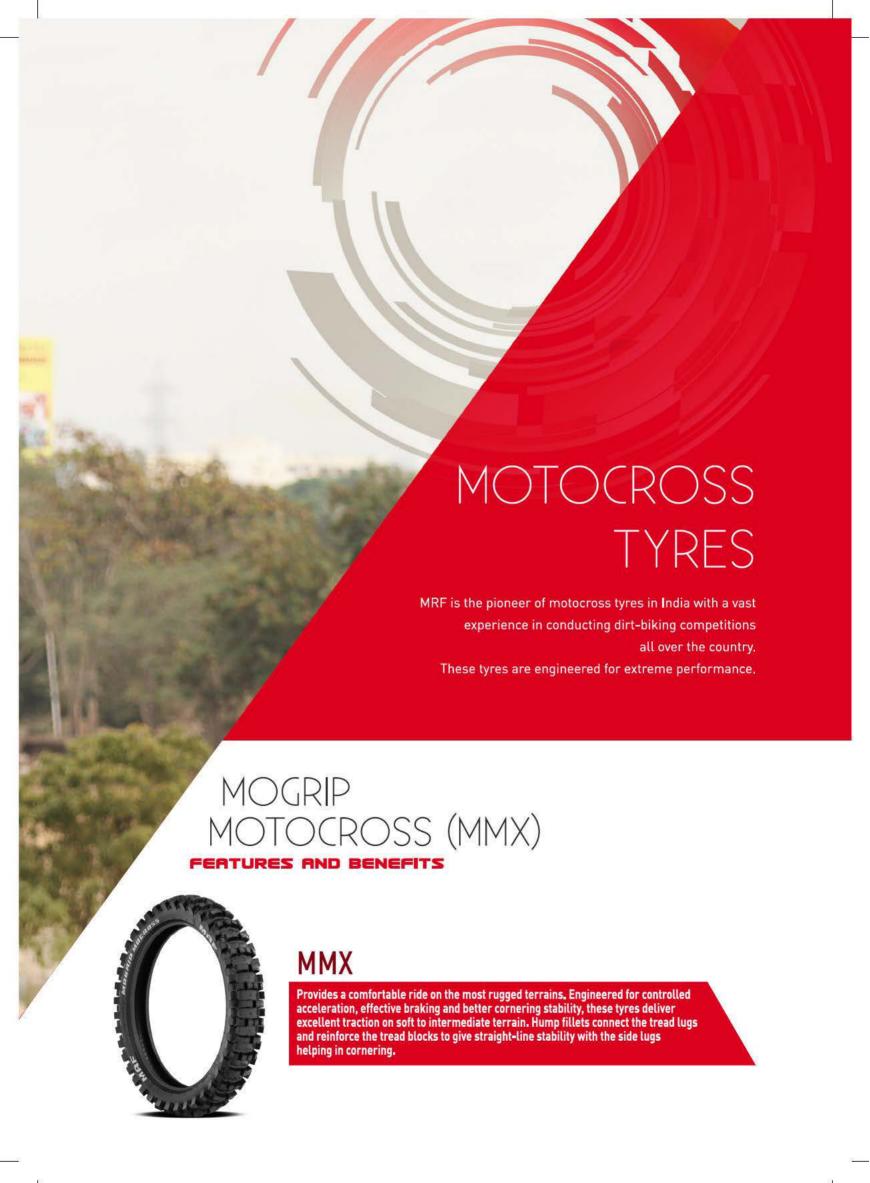
Uniquely designed E-marked pattern specially for track day use, complies to the latest FIA regulations. The asymmetric pattern can also be used for asphalt/tarmac rallies with superior handling on both dry and wet surfaces.



ZTTc

Unique asymmetric pattern designed specifically for asphalt/tarmac rallies. The E-marked and FIA compliant pattern gives confident handling on both wet and dry surfaces. Excellent performance in track day use also.

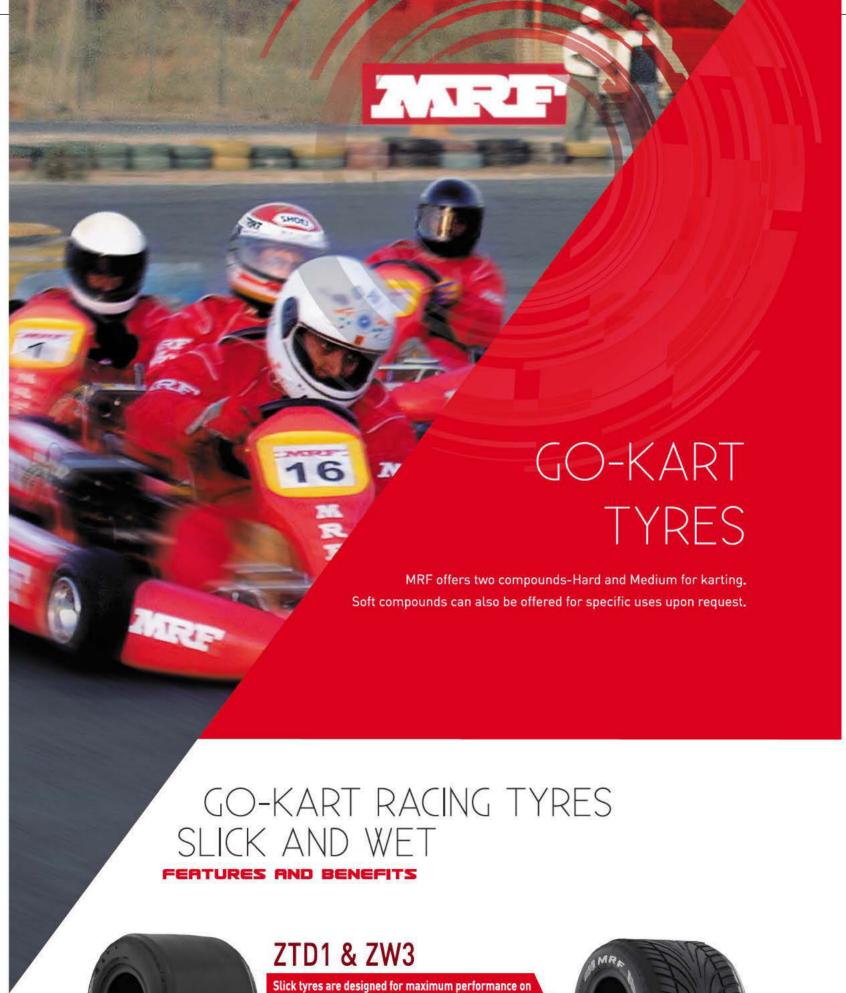






0576- Racing Brochure_Size: Close size A4_ (Page 14)







Slick tyres are designed for maximum performance on dry tarmac. Hard and Medium compound options are available.

Wet tyres are suitable for damp/wet conditions.
Patterns designed to prevent aquaplaning.



State Transmitted Transm							CIRCU	CIRCUIT RACING - SLICK / WET	SLICK / WI	텀				
Speed Equivalent Size Rim Section Tread Overall Diameter NSD Compound* Organia Usage* Organia S 8 225 200 540 2.8 H1/H/M Dry S 10 280 245 575 2.8 H1/H/M Dry S 225/45 R13 8 225 200 540 5.6 W Wet S 225/45 R13 10 280 245 570 5.6 W Wet S 225/45 R13 10 280 245 570 5.6 W Wet S 225/45 R13 10 280 245 570 5.6 W Wet S 225/45 R13 10 180 580 3.6 H1/H/M Dry S 225 210 180 628 3.3 H1/H/M Dry S 225 210 195 190 628 <td< th=""><th>12021-004</th><th>ırmula 3 cai</th><th>rs (Radial - Tul</th><th>beless): S</th><th>lick</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	12021-004	ırmula 3 cai	rs (Radial - Tul	beless): S	lick									
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TID1 180/580-15 82 S		ZTD1	185/55-14	80	S	:	9	200	170	260	3.6	H1/H/M	Dry	
TID1 195/580-15 88 S		ZTD1	180/580-15	82	S	1	7	200	180	280	3.6	H1/H/M	Dry	
TID 205/55-15 88 S 6.5 210 180 615 3.4 H1/H/M Dry		ZTD1	195/580-15	98	S	i	7	210	195	585	3.3	H1/H/M	Dry	
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ZTD1 Z35/620-17 83 S		ZTD1	190/625-17	87	S	215/45 R17	9	195	190	628	3.3	H1/H/M	Dry	
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		ZTI2	240/640-18	16	Н	235/40 R18	8	235	225	979	5.6	H1/H/M	Dry & Wet	Under Development

			1		
	Remarks			Under Development	Under Development
	Usage*	Dry&Wet	Dry&Wet	Dry&Wet	Dry&Wet
	Compound*	6.0/2.8 H1/H/M	H1/H/M	H1/H/M	6.0/2.8 H1/H/M
	NSD	6.0/2.8	6.0/2.8	6.0/2.8	6.0/2.8
(ELESS)	Overall Diameter	580	625	945	979
- RACING (RADIAL - TUBELESS)	Tread Width	190	200	220	205
RACING (R	Section Width	200	225	235	230
TRACK DAY	Rim (inch)	9	7	8	8
TR	Equivalent Size	195/580-15	200/540-17	220/640-17	205/640-18
	Speed Rating	۸	W	W	W
	Load	82	87	63	88
	Tyre Size	195/50 R15	215/45 R17	235/45 R17	225/40 R18
	Pattern	ZTTc	ZTR	ZTR	ZTR
	SI	A	В		1.0

	Remarks			Under Development	Under Development					
2	Usage*	Dry&Wet	Dry&Wet	Dry&Wet	Dry&Wet	Wet	Wet	Wet	Wet	Dry
	Compound*	H1/H/M	H1/H/M	H1/H/M	H1/H/M	S/W	N/S	N/S	S/W	S/W
(55)	NSD	6.0/2.8	6.0/2.8	6.0/2.8	6.0/2.8	6.5	6.5	5.6	5.6	5.6
DRY AND WET TARMAC (ASPHALT) RALLY (RADIAL - TUBELESS)	Overall Diameter	280	625	645	940	535	550	260	009	009
RALLY (RAI	Tread Width	190	200	220	205	155	155	170	175	175
(ASPHALT)	Section Width	200	225	235	230	170	180	180	190	190
TARMAC	Rim (inch)	9	7	8	8	5	5.5	5.5	5.5	22
DRY AND WET	Equivalent Size	190/580-15	200/540-17	220/640-17	205/640-18	155/535-13	155/550-13	170/560-14	175/600-15	175/600-15
	Speed Rating	>	M	*	*	S	S	S	S	S
	Load	82	87	93	88	77	80	80	84	84
3	Tyre Size	195/50 R15	215/45 R17	235/45 R17	225/40 R18	175/60-13	185/60-13	185/55-14	185/60-15	185/60-15
	Pattern	ZTTc	ZTR	ZTR	ZTR	ZTW1	ZST	ZTW2	ZTW2	ZTD2
	SI	A	В			S	Q	ш		ш

	Remarks			
	Usage*	Off Roading	Off Roading	Off Roading
	Compound*	H/M	M/H	H/M
	NSD	15.0	16.4	15.0
ELESS)	Overall NSD Diameter	790	740	790
OFF-ROAD - RALLY (RADIAL - TUBELESS)	Tread Width	215	195	200
- RALLY (RA	Section Width	255	235	235
F-ROAD	Rim (inch)	7	9.5	6.5
6	Equivalent Size	31"x10.0"-15	29"x 9.5"-16	31"x 9.5"-16
	Speed Rating	Д	Ь	Ь
	Load	112	105	109
	Tyre Size	255/80 R15	235/70 R16	235/80 R16
	Pattern	WANDERER 0/R 255/80 R15	WANDERER 0/R 235/70 R16	WANDERER 0/R 235/80 R16
	SI	A		

						GRAVEL	RALLY (RADIAL - TUBELESS)	IAL - TUBEI	ESS)				
SI	Pattern	Tyre Size	Load Index	Speed Rating	Side	Rim (inch)	Section Width	Tread Width	Overall Diameter	NSD	Compound*	Usage* Gravel surface	Remarks
A	ZDM2	185/70 R13	98	S	L/R	5.5	190	165	290	10.6	S/W/H	V.Soft to Medium	Wider Gr.width
	ZDM2	195/60 R15	88	S	L/R	9	202	175	615	11.5	S/W/H	V.Soft to Medium	Wider Gr.width
	ZDM2	205/65 R15	76	S	L/R	9	210	185	645	11.6	S/W/H	V.Soft to Medium	Wider Gr.width
В	ZDM3	175/70 R13	82	S	L/R	2.0	175	150	575	11.4	S/W/H	Soft to Medium	Medium Gr.width
	ZDM3	185/70 R13	98	S	L/R	5.5	185	155	290	11.4	S/W/H	Soft to Medium	Medium Gr.width
	ZDM3	185/60 R14	78	S	L/R	5.5	185	150	580	11.2	S/H	Soft to Medium	Medium Gr.width
	ZDM3	185/65 R14	98	S	L/R	5.5	185	155	595	11.2	S/W/H	Soft to Medium	Medium Gr.width
	ZDM3	175/70 R15	98	S	L/R	5.0	175	150	625	11.2	S/W/H	Soft to Medium	Medium Gr.width
	ZDM3	185/65 R15	88	S	L/R	5.5	185	155	620	11.4	H/M/S	Soft to Medium	Medium Gr.width
	ZDM3	195/65 R15	91	S	L/R	0.9	205	165	635	11.4	H/M/S	Soft to Medium	Medium Gr.width
	ZDM3	195/70 R15	76	S	L/R	6.0	205	170	650	11.5	H/S	Soft to Medium	Medium Gr.width
ပ	Z62	205/65-15	76	S	L/R	9	210	175	645	11.7	S/W/H	Soft to Medium	Medium Gr.width
٥	ZGM	175/70-13	82	S	NA	5	180	145	575	11.2	Н	Soft to Medium	Medium Gr.width
ш	ZVH1	185/60-14	78	S	AN	5.5	185	150	570	7	Σ	V.Hard with	Narrow Gr.width
	ZVH1	185/65-15	88	S	NA	5.5	185	150	620	9.2	Σ	Small Pebbles	Medium Gr.width
	ZVH1	195/65-15	91	S	AN	9	200	165	635	7	Σ	V.Hard with	Narrow Gr.width
	ZVH1	205/65-15	76	S	NA	9	205	171	945	9.2	Σ	Small Pebbles	Medium Gr.width
щ	ZWM2	205/65-15	76	S	AN	9	205	135	949	11.6	H/M/S	Wet and Mud	Medium Gr.width
					9	9-05	KART (BIAS - TUBELESS)	TUBELESS	11				
SI	Pattern	Tyre Size	Equiva	Equivalent Size	Rim(mm)	Section Width	Tread Width	500	Overall Diameter	NSD	*bunodmo3	Usage*	Remarks
4	ZTD1	80/250-5		I	120	130	06	to 1	255	3.5	M/S	Dry	
	ZTD1	150/270-5			170	190	155		280	3.5	S/W	Dry	
	ZTD1	4.5 x 10.0-5	105,	105/250-5	120	130	105		260	3.5	M/S	Dry	
1	ZTD1	7.1 x 11.0-5	105,	105/250-5	200	205	155		270	3.5	M/S	Dry	
В	EMZ ZW3	80/150-5			120	130	06		255	3.5	M	Wet	
	ZW3	150/270-5			170	190	155		280	3.5	>	Wet	
					MOTOCE	MOTOCROSS (BIAS T	UBELESS) (Can be fitte	TUBELESS) (Can be fitted with Tube also)	50)			
A	MMX1	2.75-18 (Fr)		1	1.85"	75	06		625	10.2	H/M/S		
В	MMX2	3.25-16 [Rr]			2.15"	82	100		902	11.5	H/M/S		
	MMX2	100/90-19 (Rr)		1	2.5"	100	130		089	15.4	H/M/S		
ပ	MMX3	80/100-21 (Fr)			1.85"	80	115		710	10.5	H/M/S		
02020302030	-												

¹⁾ All the above tyre dimensions are in Millimeter (mm), rounded off to nearest values. 2) The specified dimensions are design values and are subject to change by the manufacturer at any time.

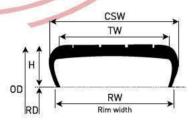
Every 0.5" difference in rim width from that specified above will result in a +/- 5mm change in section width.
 Recommended application and usage given. However, Customer could decide / select based on their choices after the performance feedback.

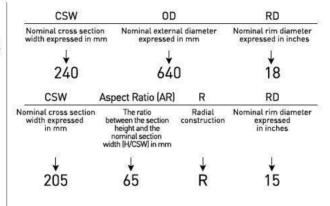
TECHNICAL INFORMATION

TYRE SIZING/MARKING OF RACING AND RALLY TYRES

Tyre Identification

The marking on the side of the tyre tells us the basic size of the tyre, the rim diameter and the width of the rim. We will illustrate how to read the different types of markings that may appear on the side of rally/racing tyres.





Rally Tyre Sizing – Eg. 205/65 R 15

where,

205 is the CSW of the tyre in mm 65 is the aspect ratio R - Radial construction 15 - Nominal rim diameter in inches

Eg. 200/540-13 where,

200 is the TW of the tyre in mm 540 is the OD of the tyre in mm 13 - Nominal rim diameter in inches

Race Tyre Sizing (Classification 1) -

Racing Tyre Sizing (Classification 2) – Eq. 240/640-18

where,

240 is the CSW of the tyre in mm 640 is the OD of the tyre in mm 18 – Nominal rim diameter in inches

USER INFORMATION

TYRE STORAGE: Tyres should be stored in a cool, dry and dark place away from direct sunlight (Suggested storage temperature: 25° C \pm 5° C). Avoid storing tyres in an area which is wet, oily or greasy.

RIMS: Recommended width of the wheel as specified to be used for optimum performance. However, from the original specified rim width \pm 0.5" can also be used. ETRTO/JATMA standards can be referred for the correct rim width.

TYRE MOUNTING AND REMOVAL: Mounting/demounting should be done by trained personnel using a suitable mounting machine. Prior to fitment, inspect the rim and tyres for any external damage. Tyres have to be mounted according to the direction of rotation specified on the sidewall. The rim seating area and tyre beads should be lubricated. Recommended tyre pressure to be followed. Check for the proper seating of the beads and tyre centring with reference to RCR (Rim Centre Ring) after inflation. Balancing of the tyres must be done.

			Grave	el Rally	- Com	pound	Selecti	ion Gu	iide								
Comp	oound		Tr	ack Sur	face	(Conditio	ns		Tra	ck	Ten	npe	rati	ıre	°C	
Hardness	Working Temp.	Mud/ Slush	Soft/ Sand	Medium/ Packed	Hard/ Rocky	Wet	Damp	Dry	-5	0	5	10	15	25	30	35	40+
Hard (H)	70 - 120°C						5 2			8	5		3				
Medium (M)	60 - 110°C									i.							
Soft (S)	25 - 80°C																
Wet (W)	20 - 90°C										7				Ť		

Comp	ound	Tr	ack Sur	face	(Condition	าร		Tra	ck	Ten	npe	rat	ure	°C	
Hardness	Working Temp.	Smooth	Medium	Rough	Wet	Damp	Dry	-5	0	5	10	20	25	30	35	40+
Hard (H)	80 - 130°C						0									
Medium (M)	50 - 110°C															
Soft (S)	40 - 90°C															
Super Soft (SS)	25 - 80°C															

LEFT & RIGHT: Directional pattern tyres must be used on the correct side. Left or Right and Outer side marking on the sidewall must be followed for best performance.

HAND-CUT TREAD PATTERN: Groove width between the pattern blocks can be widened if required. However, hand cutting the buttons could alter the performance. Hence a careful decision is to be made based on the terrain conditions.

compound Hardness Marking: Rally tyre and racing tyre compounds are designed for different applications, usage, weather conditions and track temperatures. Compound hardness is identified by H (Hard compound), M (Medium compound), S (Soft compound), SS (Super Soft compound) and W (Wet compound).

RECOMMENDATIONS FOR CORRECT MAINTENANCE AND USE OF TYRES IN COLD ENVIRONMENTS

MRF Motorsport tyres contain high performance rubber compounds and require special treatment when exposed to low temperatures (below 50°F / 10°C). At these temperatures the tyre has reduced flexibility which can result in cracking of the compound if the tyre is not handled correctly.

IN ORDER TO AVOID DAMAGE TO THE COMPOUND AT LOW TEMPERATURES, PLEASE FOLLOW THE INSTRUCTIONS BELOW:

- Before fitting on a wheel rim the tyres should be stored in a controlled environment at a minimum temperature of 68°F / 20°C for at least 24 hours.
- 2. These tyres should always be stored at a temperature above 50°F / 10°C.
- 3. During prolonged periods of non-use the tyres should be removed from the vehicle. If stored / fitted on the wheel air pressure must be reduced by 50%. Do not move the vehicle after reducing the air pressure, as this may cause the compound to crack.

WARNING

ALWAYS mount tyres only on rims which are undamaged, smooth and clean.

ALWAYS be sure that the tyre bead diameter is the same as the nominal rim diameter on which it will be mounted. The beads cannot be forced out against rim flanges by using more air pressure because this will break the beads and the tyre will explode with force sufficient to cause serious injury or death.

NEVER force the bead(s) over the rim flange or use sharp-edged or improper tools that could damage the bead(s) or other parts of the tyre. When passing tyre beads over the rim flange, ensure as much as possible of the bead already over the rim flange, is sitting in the wheel well.

ALWAYS inflate the tyre without the valve core inserted into the valve stem. Inflation air should be as dry as possible. ALWAYS inflate tyres in a safety cage or with another restraint device. NEVER inflate beyond 40 psi to seat the beads during tyre fitment.

NEVER modify any portion of a MRF racing or competition tyre, such as (but not limited to) by chemically treating the tread compound ("soaking" or "softening" the tread). Any modification could result in premature or catastrophic tyre failure leading to personal injury or death.

EXCLUSION OF WARRANTY

MRF Limited makes NO WARRANTIES WHATSOEVER, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE for its racing or competition tyres. MRF EXPRESSLY DISCLAIMS ALL SUCH WARRANTIES. In no event shall MRF be liable for any kind of general, special, direct, indirect or consequential damages including loss of profits, personal injury etc. arising from the use of its racing or competition tyres. All MRF racing and competition tyres are sold AS IS WHERE IS. Purchasers and users ASSUME ALL RISKS associated with the use of MRF racing and competition tyres.

NEVER USE RACING OR COMPETITION TYRES NOT BEARING THE "E" MARK (OR ANY OTHER LEGAL REQUIREMENT IN THE COUNTRY OF USE) ON PUBLIC STREETS OR HIGHWAYS: IT IS ILLEGAL AND DANGEROUS. NEVER USE A RACING OR COMPETITION TYRE ON PUBLIC STREETS OR HIGHWAYS WHICH HAS BRANDING ON ITS SIDEWALL "Not for Highway Use" OR "For Competition Purpose": IT IS ILLEGAL AND DANGEROUS.MRF RACING and COMPETITION TYRES WHICH ARE NOT MEANT FOR ORDINARY ROAD USE AND DO NOT BEAR AN "E" MARK ARE DESIGNED AND COMPOUNDED EXCLUSIVELY FOR COMPETITION USE ONLY. These tyres are NOT tested, labeled or intended to meet FMVSS 109/119 or ECE 30/75.

Sellers, purchasers and users of MRF racing and competition tyres agree to defend, indemnify and hold harmless MRF Ltd., its officials and business associates, from every type of risk, loss, injury, damage, legal proceedings of whatever kind of nature, which MRF Ltd. may incur or suffer as a result of the improper sale, installation or use of MRF racing and competition tyres.

Any dispute with regard to this warranty/exclusion of warranty statement and claims if any, against the products shall be exclusively governed by the laws of the Republic of India, and subject to the exclusive jurisdiction of the courts in Chennai, India.



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