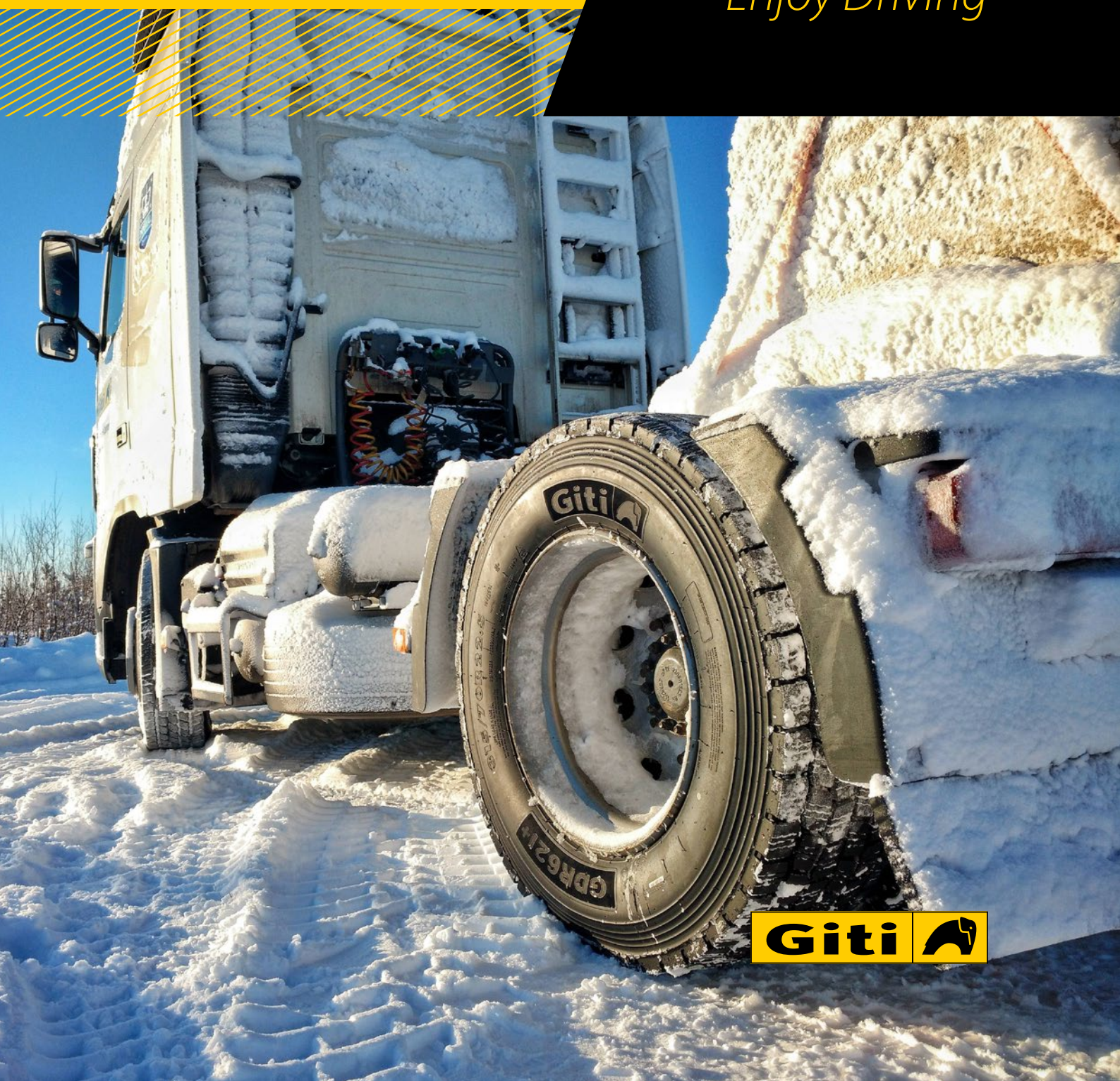


# Truck and Bus Winter Programme

& European Truck and Bus  
Winter Tire Regulations

2022/2023

*Enjoy Driving*



**Giti** 

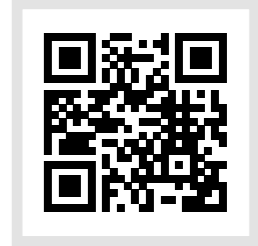
## MISSION & COMMITMENT

Giti Tire endorses the United Nations Sustainable Development Goals (SDGs) and incorporates them into each CSR activity. These goals cover a broad range of social and economic development issues. Included among them are poverty, hunger, health, education, climate change, gender equality, water sanitation, energy, environment, and social justice.



## UNGC MEMBERSHIP

As part of the United Nations, the UNGC is a highly respected and important global business agreement, that requires a CEO and company commitment to adhering to the Ten Principles of the United Nations, including human rights, labor, environment, and anti-corruption. Giti is proud to join this exclusive and important compact in 2021, and continue to grow with it through an annual Communication on Progress, as well as other commitments.



Further details about the United Nations Global Compact can be seen on their website here



## GPSNR MEMBERSHIP

Giti Tire is proud to be a member of GPSNR (Global Platform for Sustainable Natural Rubber), a leading global organization dedicated to maintaining a fair, equitable, and environmentally sound natural rubber value chain. As tires directly relate to the environment, a focus on improving the process of rubber creation, procurement, and supply is very important to reducing societal impact and creating positive offsetting solutions for the industry.



You can learn more about Giti's environmental and other sustainable efforts at



- 1 > GREEN ENERGY**  
Giti utilizes alternative and clean energy methods, including solar panels to generate green electricity.
- 2 > WATER RECYCLING**  
Continued recycling of water usage at Giti's plants has improved local environments.
- 3 > FUEL-GAS DESULFURIZATION (FGD)**  
The desulfurization efficiency rate now exceeds 95%, reducing 190 tons since the previous year.
- 4 > GREEN CERTIFICATIONS**  
Giti's plants throughout the world have received environmental management certification and passed clean production audits.

# GSW226

WINTER



STEER AND TRAILER AXLE  
PATTERN FOR SNOW, ICE AND  
WET ROAD CONDITIONS



- > 3PMSF tested and certified for severe winter performance
- > Excellent winter handling properties with high mileage potential



Optimized block edge elements in combination with deep snow sipes provide excellent grip and safe feeling in all road conditions.

Wide and robust shoulders ensure higher stability in steering and cornering keeping on the same time low noise and high driving comfort.



Size	LI	SI	Pattern		Rim	Load Single Kg	Load Dual Kg			Noise dB			
315/70R22.5	156/150 (154/150)	L (M)	GSW226	3PMSF	9.00	4000	3350	312	1014	72	B	C	D
315/80R22.5	158/150 (154/150)	L (M)	GSW226	3PMSF	9.00	4250	3350	312	1076	72	B	C	D
385/55R22.5	158 (160)	L (J)	GSW226	3PMSF	12.25	4250		381	996	73	B	B	D
385/65R22.5	164 (160)	K (L)	GSW226	3PMSF	11.75	5000		389	1072	72	B	B	D

# GDR621+

WINTER



UPGRADED VERSION OF GITI  
DRIVE TIRE FOR WINTER AND ALL  
SEASONS CONDITIONS

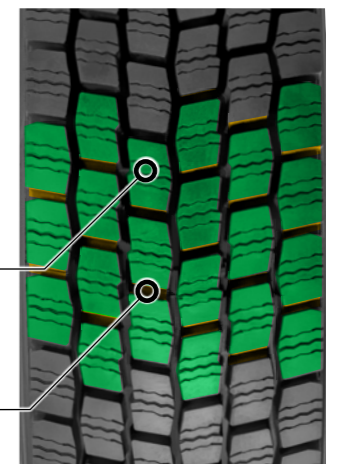


- > GDR621+ features latest tread compound for improved road performances
- > Fleet test run in Austria confirmed +30% mileage improvement while all other performances have been kept at same level
- > Certified 3PMSF



Latest generation Giti tread compound for superior performance in winter and all-season conditions. Plus "+" on the sidewall stays for enhanced abrasion resistance tread compound vs. previous GDR621 generation.




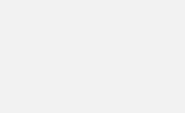
Deep tread depth and specific block sipes for outstanding traction and excellent mileage in every condition.




Size	LI	SI	Pattern		Rim	Load Single Kg	Load Dual Kg			Noise dB			
315/70R22.5	154/150 (152/148)	L (M)	GDR621+	3PMSF	9.00	3750	3350	312	1014	75	B	B	D
315/80R22.5	158/150 (154/150)	L (M)	GDR621+	3PMSF	9.00	4250	3350	312	1076	75	B	B	D

# EUROPEAN REGULATORY REQUIREMENTS

Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Andorra</b>	No regulations for trucks and buses.	Road signs indicate when required.	
 <b>Albania</b>	No regulations for trucks and buses.	Mandatory to carry in some regions depending on road conditions and traffic signs fitted to Drive axles and Trailers in snow and ice conditions.	Studded tires not allowed.
 <b>Armenia</b>	In months December, January, February passenger, light truck, trucks and buses must be equipped on all axles with tires marked M + S or with the 3PMSF Symbol. Minimum tread depth 4 mm.	Snow chains are advised but not compulsory.	Use of studded tires is forbidden in the summer months (June, July, August).
 <b>Austria</b>	Winter tires compulsory on min. one drive axle from November 1 <sup>st</sup> to April 15 <sup>th</sup> . Risk of driving ban and heavy fines if you do not comply (€ 35 to € 5,000). Trucks > 3.5 t GVW must be equipped with either M + S or 3PMSF tires on at least one drive axle with a min. tread depth of 5 mm (radial). Winter tires are compulsory for buses (categories M2, M3) from November 1 <sup>st</sup> to March 15 <sup>th</sup> .	Snow chains must be carried in the vehicle for at least two drive axle tires from November 1 <sup>st</sup> to April 15 <sup>th</sup> . Exceptions for public service buses apply. Use on roads covered with snow and ice.	Studded tires are prohibited for vehicles > 3.5 t GVW.
 <b>Belarus</b>	In months December, January, February passenger, light truck, trucks and buses must be equipped on all axles with tires marked M + S or with the 3PMSF Symbol. Minimum tread depth 4 mm.	Snow chains are advised but not compulsory.	Use of studded tires is forbidden in the summer months (June, July, August).
 <b>Belgium</b>	No legal requirement. Symmetric fitting compulsory for M + S and winter tires.	Snow chains only permitted on roads covered with snow and ice.	Studded tires are not allowed.
 <b>Bosnia-Herzegovina</b>	Winter tires mandatory from November 15 <sup>th</sup> April 15 <sup>th</sup> for vehicles with GVW > 3,5 t or having more than 8 seats. 2 choices: 1. Winter profile tires on drive axle with minimum of 4 mm tread depth. 2. Snow chains must be used with Standard tires on drive axles which have a minimum tread depth of 4 mm in winter conditions.	From November 15 <sup>th</sup> to April 15 <sup>th</sup> snow chains must be carried in vehicle.	Studded tires prohibited. A snow shovel and a bag of sand weighing between 25 kg and 50 kg must be carried in the vehicle.






Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Bulgaria</b>	From November 15 <sup>th</sup> to March 1 <sup>st</sup> summer or winter tires with minimum 4 mm tread depth are mandatory.	Snow chains must be carried in the vehicle from November 15 <sup>th</sup> to March 31 <sup>st</sup> . Usage is mandatory on certain mountain passes when indicated by traffic signs.	Studded tires are not allowed. Without adequate tire tread depth and chains, risk to be refused to enter or a driving ban may be issued.
 <b>Croatia</b>	Winter tires (M + S) compulsory from November 15 <sup>th</sup> to April 15 <sup>th</sup> . M + S tires are compulsory on the drive axle of vehicles > 3.5 t GVW.	Snow chains required for drive axle in certain conditions if vehicle is fitted with summer tires. In regions Kotra, Gorski and Lika snow chains must be carried.	Studded tires not allowed. All commercial vehicles must carry a snow shovel.
 <b>Czech Republic</b>	Winter tires compulsory from November 1 <sup>st</sup> to March 31 <sup>st</sup> in wintry conditions or when traffic sign „winter kit“ indicates. M + S tires are compulsory on the drive axle of vehicles > 3.5 t GVW with min. 6 mm tread depth.	Snow chains allowed only on road surfaces covered with snow or ice. Obligation to use snow chains may be determined by traffic sign. Snow chains must be fitted on at least 2 drive wheels (one each side).	Studded tires not allowed.
 <b>Denmark</b>	No legal winter tire requirement.	Snow chains are allowed from November 1 <sup>st</sup> to April 15 <sup>th</sup> .	Studded tires allowed from November 1 <sup>st</sup> to April 15 <sup>th</sup> .
 <b>Estonia</b>	Winter tires not mandatory on heavy vehicles, but minimum tread depth of 3 mm is required.	Snow chains only permitted on roads covered with snow and ice.	Studded tires not allowed on vehicles with over 3.5 t GVW.





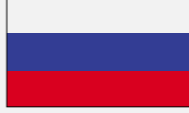

# EUROPEAN REGULATORY REQUIREMENTS

Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Finland</b>	For vehicles GVW > 3.5 t, in the period November to March, if weather conditions so require, trucks and buses must be equipped with winter tires. Winter tires are defined as a tire with 3PMSF marking, POR or studded. During winter period tires must have on drive axles a minimum tread depth of 5.0 mm and on all other positions minimum 3.0 mm. Tires having M + S marking can be used on trucks and buses until November 30 <sup>th</sup> 2024, and on trailers to November 30 <sup>th</sup> 2029.	Snow chains only allowed on roads covered with Ice and Snow.	Studded tires permissible from November 1 <sup>st</sup> to first Monday after Easter. This could be extended depending on the weather conditions. For vehicles over 3.5 GVW max. speed 80 km/h. Special rules applies to number and type of studs.
 <b>France</b>	There are no general winter tire requirement for TBR. Exceptions are indicated by traffic signs. (B26) and or (B58). From November 1 <sup>st</sup> 2021 trucks and buses without trailers must have at least two snow chains for the drive tires in certain mountain regions, or alternatively, winter tires (3PMSF) on min. 2 steer axle tires and 2 drive axle tires mounted on same axle, where the law "Loi Montagne" is applicable. Winter tires are defined as tires with M + S sign until November 1 <sup>st</sup> 2024, when the definition becomes 3PMSF certification with M + S marking.	The use of snow chains is indicated by traffic signs B26. From November 1 <sup>st</sup> 2021 trucks and buses must have at least two snow chains for the drive tires in certain mountain regions, where the law "Loi Montagne" is applicable.	Studded tires are prohibited for vehicles > 3.5 t GVW. Consult national authorities for exceptions.
 <b>Germany</b>	Vehicles with > 3.5 t GVW must be fitted with tires on front steering axle permanently driven axles when there is winter conditions on the road. Winter tire is a tire marked with the 3PMSF Symbol. Tires produced before January 1 <sup>st</sup> 2018 and marked with M + S are accepted as winter tires from a legal point until September 1 <sup>st</sup> 2024.	Use of snow chains when indicated by traffic signs.	Studded tires prohibited. With some exceptions (check with local authorities) If vehicle fitted with non-winter tires, € 60 fine for driving in winter conditions; € 80 fine for causing traffic problems; € 120 fine for causing an accident. Plus 1 point in each case (Flensburg points system).
 <b>Greece</b>	No winter tire regulations.	Required by traffic signs. At least snow chains must be mounted on the drive axle. Snow chains may only be used on snow-covered or ice-covered roads. The maximum speed may not exceed 50 km/h.	Studded tires allowed during winter conditions.






Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Hungary</b>	No winter tire regulations.	Snow chains are only allowed on roads covered with snow and ice. The carrying of snow chains on the vehicle may be compulsory due to special weather conditions (max. speed 50 km/h). When winter conditions, the entry for foreign vehicles may be rejected if no snow chains are carried on board the vehicle.	Studded tires not allowed.
 <b>Iceland</b>	No winter regulations exist, but is expected to come.		
 <b>Ireland</b>	No winter tire regulations.	Snow chains allowed only when roads are covered with snow and ice.	Studded tires are permissible, max. speed 96/112 km/h (national road/motorway).
 <b>Italy</b>	No general winter tire regulations. Winter tires (tires marked M + S, M&S, MS tires) or snow chains required on roads where traffic signs indicate.	An anti-skid device (e.g. snow chains) must be carried in vehicle. Mandatory in some conditions or when there is a specific public authority order or specific road sign.	Winter regulation prot. RU/1580 applies only to the following vehicles categories: M1, N1 and O1.
 <b>Kazakhstan</b>	Winter tires (M + S or 3PMSF) must be fitted on trucks and buses on all axle positions in period from December 1 <sup>st</sup> to February 28 <sup>th</sup> . Minimum tread depth is 4 mm.	Snow chains are not compulsory, but recommended to carry in vehicle.	Studded tires are allowed except in period during summer months (June–August).
 <b>Kosovo</b>	No winter tire regulations.	Snow chains for the drive axle must be carried in the vehicle. Use according to traffic signs and weather conditions.	Studded tires not allowed. Commercial vehicles must carry a snow shovel.
 <b>Latvia</b>	No winter tire regulations for vehicles > 3.5 t GVW. Heavy vehicles from from December 1 <sup>st</sup> to March 1 <sup>st</sup> , tires must have min. 4 mm tread depth.	Snow chains only allowed on roads where snow and ice are present.	Studded tires allowed between October 1 <sup>st</sup> to April 30 <sup>th</sup> for vehicles up to 3.5 t GVW.




# EUROPEAN REGULATORY REQUIREMENTS

Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Liechtenstein</b>	No winter tire regulations. For liability issues, tires must be adequate for winter use and weather conditions.	Snow chains allowed. In the mountains, traffic signs indicate if snow chains are compulsory.	Vehicles > 7.5 t GVW: Studded tires allowed from November 1 <sup>st</sup> to April 30 <sup>th</sup> , max. speed 80 km/h. All tires should be equipped with studded tires. Vehicles with studded tires have to be labelled with a sticker. Not allowed on express and motorway.
 <b>Lithuania</b>	No winter tire regulations for vehicles > 3.5 t GVW.	Snow chains only allowed on roads covered with snow and ice.	Studded tires allowed between November 1 <sup>st</sup> and April 1 <sup>st</sup> .
 <b>Luxembourg</b>	Winter tires are mandatory on all drive axles during winter weather conditions (snow, ice, glazed frost) on trucks as well as buses and need to be marked with either M + S, M&S, MS, 3PMSF.	Snow chains are only allowed on roads covered with snow and ice.	Studded tires not allowed.
 <b>North Macedonia</b>	Winter tires mandatory on drive axles from November 15 <sup>th</sup> to March 15 <sup>th</sup> . Min. 5 mm tread depth.	Must be carried in vehicle from October 15 <sup>th</sup> to March 15 <sup>th</sup> if vehicle has only summer tires fitted.	Studded tires prohibited. Coaches and heavy trucks must carry snow shovels.
 <b>Montenegro</b>	Tires marked (M + S) or winter tires (3PMSF) must be fitted in period from November 1 <sup>st</sup> to April 30 <sup>th</sup> on roads specified by Ministry of Interior. Minimum tread depth is 4 mm.	Snow chains only permitted on roads covered with ice and snow.	Studded tires not allowed. Must carry snow shovel and bag of sand.
 <b>Netherlands</b>	No winter tire regulations.	Snow chains are prohibited on public roads.	Studded tires not allowed.

Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Norway</b>	From November 15 <sup>th</sup> to March 31 <sup>st</sup> , vehicles > 3.5 t GVW must have winter tires marked 3PMSF on drive axles and front steering axles. On other axles you can use tires of the type "M + S" or "3PMSF". Special rules applies for allowed times depending on regions. The vehicle must have winter tires (studded or non-studded), chains or similar, also outside of the periods mentioned above if this is necessary in order to ensure sufficient road grip. Min. tread depth is on all axles on all axle positions with a minimum tread depth of 5 mm.	Vehicle > 3.5 t GVW (Truck + trailer) must carry at least seven chains during the period when studded tires are permitted to use.	Studded tires allowed from November 1 <sup>st</sup> to the first Sunday after Easter. In 'Nordland, Troms and Finnmark' they are allowed from October 16 <sup>th</sup> to April 30 <sup>th</sup> . On Trucks and trailers: studded tires must be on the same axle. If twin mounted one tire is sufficient. The areas of Trondheim and Oslo a fee is charged for the usage of studded tires: can be purchased at vending machines along the main roads or by phone.
 <b>Poland</b>	No winter tire regulations.	Only permitted on snow- and ice-covered roads. Road signs indicate where snow chains are compulsory.	Studded tires are prohibited.
 <b>Portugal</b>	No winter tire regulations.	In high altitude areas the temporary use of snow chains is compulsory when roads signs indicate.	Studded tires are prohibited.
 <b>Romania</b>	Tires (Marked M + S) or winter tires (3PMSF) mandatory when winter conditions on the road for drive axles on vehicles > 3.5 t GVW and buses with more than 9 seats.	Snow chains must be carried and fitted when instructed by road signs.	Studded tires not allowed. Shovel and sand required for vehicles over 3.5 t GVW.
 <b>Russia</b>	In months December, January, February passenger, light truck, trucks and buses must be equipped on all axles with tires marked M + S or with the 3PMSF Symbol. Minimum tread depth 4 mm.	Snow chains are advised but not compulsory.	Use of studded tires is forbidden in the summer months (June, July, August).
 <b>Serbia</b>	Tires marked M + S or winter tires (3PMSF) mandatory from November to April. Min. 4 mm tread depth use following traffic signs and conditions.	Snow chains must be carried on vehicle for drive-axles, and used when road signs indicate.	Studded tires not allowed Trucks and buses must carry a snow shovel.

# EUROPEAN REGULATORY REQUIREMENTS

Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Slovakia</b>	Winter/M + S tires mandatory for trucks over 3.5 t GVW from November 15 <sup>th</sup> to March 31 <sup>st</sup> on at least one drive axle (min. 3 mm tread depth).	Snow chains must be carried in vehicle. Traffic signs will indicate when required.	Studded tires prohibited.
 <b>Slovenia</b>	Winter tires mandatory from from November 15 <sup>th</sup> to March 15 <sup>th</sup> . 2 choices: 1. Winter profile tires on drive axle with minimum of 3 mm tread depth. 2. For standard tires, snow chains must be used on drive axles in case of winter conditions.	Snow chains must be carried in vehicles > 3.5 t GVW if no winter tires are fitted.	Studded tires prohibited.
 <b>Spain</b>	No general winter tire regulations. On special roads (red level) only buses can drive with 3PMSF marked tires in all positions. Some exception rules apply for trucks. Min. 4 mm tread depth required on these roads.	Mandatory in certain conditions (red level) and on certain vehicles on at least one drive tire on each side if no M + S or winter tires are fitted.	Only on snow- or ice-covered roads max. protrusion 2 mm car, bus and trucks.
 <b>Sweden</b>	Winter tires are tires marked 3PMSF, POR or studded and they are compulsory from December 1 <sup>st</sup> to March 31 <sup>st</sup> (when winter conditions on the road) on Steer and Drive axles of vehicles over 3.5 t GVW. Minimum tread depth 5 mm on all tires except trailer tires (1.6 mm). Tires for Trailers over 3.5 t must be marked M + S from June 1 <sup>st</sup> 2019. During transition period from June 1 <sup>st</sup> 2019 to November 30 <sup>th</sup> 2024, tires marked M + S, will be accepted as winter tire.	Snow chains recommended to be carried in the vehicle all year in case weather dictates the use.	Studded tires are allowed from October 1 <sup>st</sup> to April 15 <sup>th</sup> . Depending on the weather conditions this period may be extended. It exist exceptions on specific roads.
 <b>Switzerland</b>	No general winter tire regulations. However, on Alpine pass-roads regulation are possible. Vehicles need to be safe to operate. Tread depth min. 1.6 mm. Using standard tires in winter conditions involved in accidents be aware of liability issues. 3PMSF marked tires are recognized as suitable winter tires.	The authorities announce when and where snow chains are mandatory.	Studded tires are prohibited on vehicles > 3.5 t GVW.

Market	Tire Regulations	Snow Chain Regulations	Further Information
 <b>Turkey</b>	It is compulsory for commercial vehicles to use winter tires for intercity usages from December 1 <sup>st</sup> to April 1 <sup>st</sup> . In urban areas, local authorities will give the time period for each area individually. All trucks, and buses have to be equipped with tires marked with the M + S, or the M + S and 3PMSF symbol or with the 3PMSF on the drive axles. All vehicles used for commercial purposes (Taxi, etc.) (vans, light trucks, pickups and passenger cars) have to be equipped with tires marked with the M + S, or the M + S and 3PMSF symbol or with the 3PMSF symbol on all axles. When using re-treaded tires, they need to have a winter tire pattern. The minimum required tread depth of commercial vehicle tires is 4 mm.	Snow chains recommended to be carried in the vehicle and for use on roads covered with snow and ice.	Vehicles should carry tow rope and chocks. Studded tires are permissible as a winter tire.
 <b>Ukraine</b>	No winter tire regulations.	Snow chains only allowed on roads covered with snow and ice.	Studded tires are permitted.
 <b>UK</b>	No specific winter tire regulations.	Snow chains are only allowed on roads covered with snow and ice.	All tires must be suitable having regard to the use to which the motor vehicle is being used, therefore studded tires may not be appropriate for dry tarmac.

Giti Tire are currently not aware of general winter tire rules / snow chain regulations for trucks and buses in the following countries: Cyprus, Moldova and Malta. Please consult the traffic regulations in the respective countries for special snow chain and studded tire rules. We have strived to bring accurate and current information however, Giti Tire cannot guarantee that the information is correct, updated and complete.

**M + S** Tires marked with M + S (Mud+Snow) are tires that are designed to deliver winter performance that exceeds that of a standard tire in winter conditions. M + S marked tires is not having a legal test procedure.

**3PMSF** Three-Peak Mountain Snowflake (3PMSF) are tires has the winter performance legally certified. These tires are compared on a snow-covered road and must have minimum 25% better traction than a standard reference tire.





## GITI TIRE PATTERNS BY APPLICATION WITH 3PMSF CERTIFICATION AND/OR M + S FOR REGULATORY REQUIREMENTS

Pattern	Position	Application	M+S	3PMSF
GSR225	Steer	Combi Road	M+S	3PMSF
GSR236	Steer	Combi Road	M+S	3PMSF
GSR237	Steer	Combi Road	M+S	3PMSF
GSR259	Steer	Combi Road	M+S	3PMSF
GDR655	Drive	Combi Road	M+S	3PMSF
GDR655 +	Drive	Combi Road	M+S	3PMSF
GDR665	Drive	Combi Road	M+S	3PMSF
GDR665 +	Drive	Combi Road	M+S	3PMSF
GDR675	Drive	Combi Road	M+S	3PMSF
GTR955	Trailer	Combi Road	M+S	3PMSF
GAL817	Steer	Long		
GDL617	Drive	Long	M+S	3PMSF
GTL919	Trailer	Long	M+S	3PMSF
GTL925	Trailer	Long	M+S	3PMSF
GAR820	All Position	Regional	M+S	3PMSF
GDR638	Drive	Regional	M+S	3PMSF
GDR688	Drive	Regional	M+S	3PMSF
GTR923	Trailer	Regional	M+S	3PMSF
GAM831	All Position	Mixed Service	M+S	3PMSF
GAM833	All Position	Mixed Service	M+S	
GAM837	All Position	Mixed Service	M+S	3PMSF
GDM676	Drive	Mixed Service	M+S	
GDM686	Drive	Mixed Service	M+S	3PMSF
GDM686+	Drive	Mixed Service	M+S	3PMSF
GAM851	Trailer	Mixed Service	M+S	3PMSF
GT867	All Position	Urban	M+S	3PMSF*
GAU867 <sup>v1</sup>	All Position	Urban	M+S	3PMSF
GSW226	Steer	Winter	M+S	3PMSF
GDR621+	Drive	Winter	M+S	3PMSF

\*) only for sizes 245/70R19.5 and 11R22.5





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