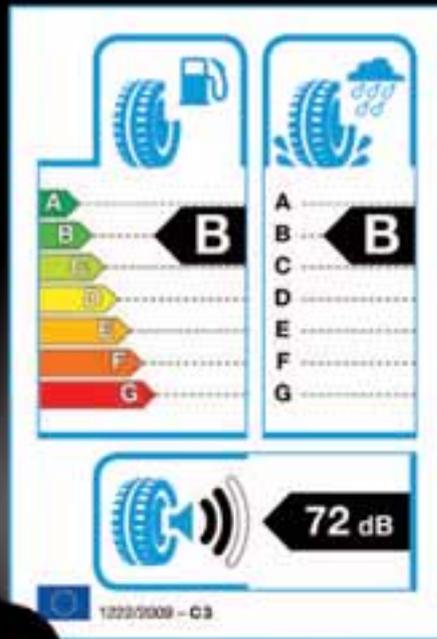


TYRE LABEL GRADINGS

JULY 2012



PIRELLI TRUCK TYRES.



INDEX

EU TYRE LABELLING REGULATION	1
PIRELLI TYRE LABELLING	1
TYRE LABELLING TABLE - 01 SERIES	4
TYRE LABELLING TABLE - OTHER SERIES	6

EU TYRE LABELLING REGULATION (NO. 1222/2009)

The new EU Regulation introduces labeling requirements with regard to the display of information on the fuel efficiency (rolling resistance), wet grip and external noise of the tyres. The aim is to increase safety and efficiency of road transport by promoting fuel efficient and safe tyres with low noise levels.

The need for greater information on tyre fuel efficiency and other parameters is relevant for consumers which cannot easily compare the performances of different tyres and tyre brands in the absence of a labeling and harmonized testing regime. The Regulation allows end users to make more informed choices when selecting the right tyre.

The Regulation requires that all the tyres produced from 1st July 2012 and on sale in the EU from 1st November 2012 will carry a sticker or have a label in their close proximity to be shown to the end user before purchasing.

PIRELLI POSITION

Pirelli, as brand premium Company, welcomes and fully supports the introduction of the tyre label considering it as a good tool to get more transparency towards end-users and a help for the consumers in collecting some essential information when purchasing new tyres.

Consumers must also be aware that fuel savings and road safety depend heavily on the drivers' behavior. Furthermore using tyres correctly and maintaining them, as well as being aware of their characteristics, are fundamental elements to guarantee safety in any situation and increase the tyres' lifespan while saving money.

Pirelli wants to remark that rolling resistance, noise and wet braking are 3 important performance indicators but the overall value of a truck tyre must be measured the basis of parameters: mileage, handling (dry and wet), traction, road holding and plastic comfort. Each product is developed to deliver the best performance trade-off for each application segment.

Safety is the most important criteria and Pirelli objective has been always an optimum balance among all relevant performances and therefore success factors.

Tyre dealers will maintain an essential role in the consumers purchasing decision as he still represents the tyre expert who can suggest the right tyre for each end user need.

Truck winter tyres are developed for optimum performance in weather conditions under 4°C, snow, wet and melted snow. Since the label doesn't show any specific criteria for winter performance, winter tyres could rank into lower classes than summer tyres. This requires an additional explanation by the tyre specialist.





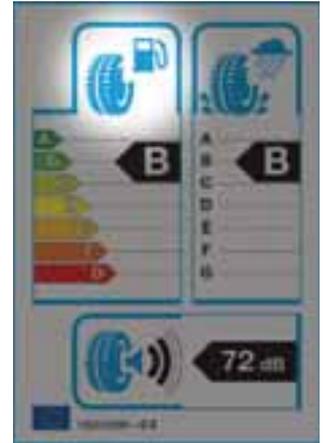
REDUCE FUEL CONSUMPTION

**FUEL EFFICIENCY ASSOCIATED
TO THE TYRE'S ROLLING RESISTANCE**

Rolling Resistance is a force acting opposite to the travel direction when the tyre is rolling. Considering that tyres contribute up to 20% of the overall fuel consumption for a car and up to 35% for a truck, it is important to reach low Rolling Resistance values.

Let's understand how it works: due to the vehicle load, the tyre is deformed in the contact area with the road surface dissipating energy in form of heat. The higher deformations, the higher the rolling resistance and consequently more fuel consumption and CO₂ emissions.

In the EU tyre Regulation label, rolling resistance is expressed in grades, ranging from A (best grading) to F for industrial vehicles and G for cars (worst grading).



The difference between a **C** tyre and a **B** tyre means a reduction or increase in fuel consumption of between 2.5% - 4.5% for a car and 5%-8% for a truck.

LABEL CLASS: FROM C TO B

VEHICLE: TRACTOR + SEMITRAILER

KM/YEAR: 160.000 km

Fuel eCONOMY: 3,5 Km/l

APPLICATION/route: H/R



**CONSUMPTION
REDUCTION**

6%



**LITERS
OF FUEL SAVED**

2.883 L



**TOTAL CO₂
SAVED**

8 Tons

Calculation based on theoretical constant Rolling Resistance value during whole tyre lifespan.

Discover how we can REDUCE FUEL CONSUMPTION on: www.pirelli.com/tyre/ww/eu/truck_bus



INCREASE SAFETY ON WET

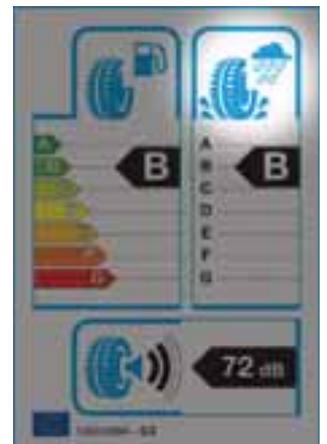
**SAFETY ASSOCIATED
TO THE TYRE'S WET GRIP**

Wet grip is one of the most important safety characteristic of a tyre. Excellent grip on wet means shorter braking distances when driving in rainy weather. There are other important parameters which are relevant for safety but wet grip was chosen as the most representative situation in order to compare different tyres.



**For example, in case of Pirelli
Truck Tyres the difference in
braking distance between
grade C and B can achieve
up to 17%.**

* Estimation by Pirelli based on ISO 15222:2011-WET GRIP TEST PROCEDURE TRUCK & BUS TYRES.





REDUCE NOISE EMISSIONS

**EXTERNAL NOISE LEVEL
(GIVEN IN DECIBELS)**

Traffic noise is a relevant environmental issue determined by several factors such as: Traffic intensity, Vehicle type, Driving style and Tyre-Road interaction.

The value indicated in the label is not the internal that the driver will perceive while driving, but the external one, that is contributing to acoustic pollution.

To reduce traffic noise it is therefore appropriate to purchase tyres with low external rolling noise.



1 SOUND WAVES

3 dB (A) less than the limits of EC Reg. 661/2009.



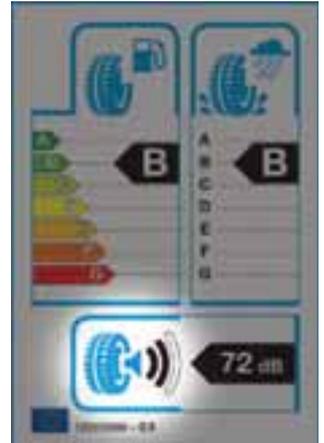
2 SOUND WAVES

meets EC Reg. 661/2009 limits.
+ 1 wave = + 3 dB = double the noise

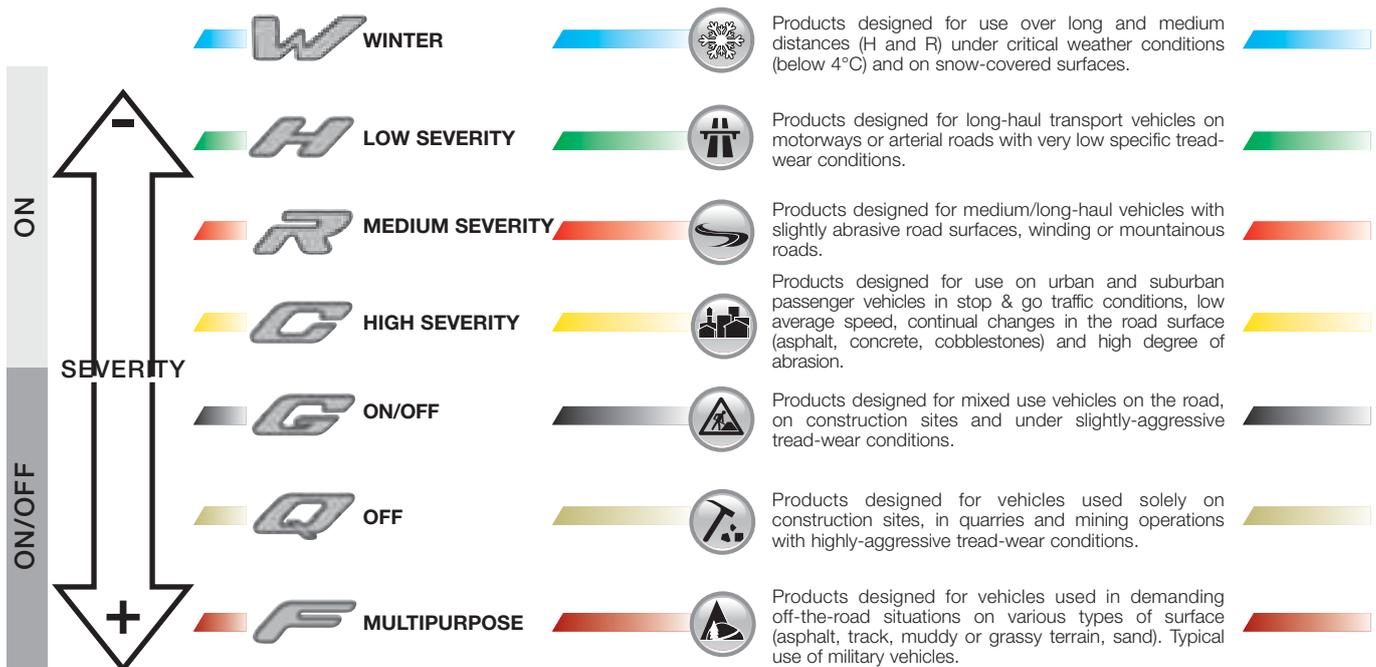


3 SOUND WAVES

meets EC Dir. 2001/43 limits.
+ 2 wave = + 6 dB = four times the noise



PIRELLI SEGMENTATION



TYRE LABELLING TABLE



energy efficiency class

wet grip class

external rolling noise class

SEGMENT **W**

Tread pattern	Rim	IP code	EAN code	Size	Load Index / Speed code	EU TYRE LABEL			Note
FW:01™	17.5"	21834	8019227218343	205/75 R 17.5	124/122 M				M+S / In preparation
		21836	8019227218367	215/75 R 17.5	126/124 M				M+S / Label will follow
		21838	8019227218381	225/75 R 17.5	129/127 M				M+S / In preparation
		21840	8019227218404	235/75 R 17.5	132/130 M				M+S / Label will follow
		21842	8019227218428	245/70 R 17.5	136/134 M				M+S / In preparation
	22.5"	22012	8019227220124	385/55 R 22.5	158 L (160 K)				M+S / In preparation
		21671	8019227216714	315/60 R 22.5	152/148 L	C	A	75 dB	M+S
		22011	8019227220117	385/65 R 22.5	158 L (160 K)				M+S / In preparation
		21511	8019227215113	315/70 R 22.5	154/150 L (152/148 M)	C	B	73 dB	M+S
		21507	8019227215076	295/80 R 22.5	152/148 M	C	A	72 dB	M+S
21509	8019227215090	315/80 R 22.5	156/150 L (154/150 M)	C	A	71 dB	M+S		
TW:01™	17.5"	21835	8019227218350	205/75 R 17.5	124/122 M				M+S / In preparation
		21837	8019227218374	215/75 R 17.5	126/124 M				M+S / Label will follow
		21839	8019227218398	225/75 R 17.5	129/127 M				M+S / In preparation
		21841	8019227218411	235/75 R 17.5	132/130 M				M+S / Label will follow
		21843	8019227218435	245/70 R 17.5	136/134 M				M+S / In preparation
	22.5"	21672	8019227216721	315/60 R 22.5	152/148 L	D	B	75 dB	M+S
		21512	8019227215120	315/70 R 22.5	154/150 L (152/148 M)	D	B	73 dB	M+S
		21508	8019227215083	295/80 R 22.5	152/148 M	D	A	74 dB	M+S
		21510	8019227215106	315/80 R 22.5	156/150 L (154/150 M)	D	B	73 dB	M+S

SEGMENT **H**

Tread pattern	Rim	IP code	EAN code	Size	Load Index / Speed code	EU TYRE LABEL			Note
FH:01™ Energy™	22.5"	21291	8019227212914	385/55 R 22.5	158 L (160 K)				In preparation
		21562	8019227215625	295/60 R 22.5	150/147 L				In preparation
		20776	8019227207767	315/60 R 22.5	152/148 L	C	A	72 dB	
		21819	8019227218190	385/65 R 22.5	158 L (160 K)				In preparation
		21913	8019227219135	305/70 R 22.5	152/150 L (150/148 M)	C	B	70 dB	
		20777	8019227207774	315/70 R 22.5	154/150 L (152/148 M)	B	B	70 dB	
		21559	8019227215595	295/80 R 22.5	152/148 M	C	B	70 dB	
		21560	8019227215601	315/80 R 22.5	156/150 L (154/150 M)	B	A	70 dB	
TH:01™ Energy™	22.5"	21563	8019227215632	295/60 R 22.5	150/147 L				M+S / In preparation
		20778	8019227207781	315/60 R 22.5	152/148 L	C	B	74 dB	M+S
		21914	8019227219142	305/70 R 22.5	152/150 L (150/148 M)	C	B	73 dB	M+S
		20779	8019227207798	315/70 R 22.5	154/150 L (152/148 M)	C	B	73 dB	M+S
		21455	8019227214550	295/80 R 22.5	152/148 M	C	B	73 dB	M+S
		21561	8019227215618	315/80 R 22.5	156/150 L (154/150 M)	C	B	73 dB	M+S

SEGMENT

Tread pattern	Rim	IP code	EAN code	Size	Load Index / Speed code	EU TYRE LABEL			Note
									
FR:01™	19.5"	20782	8019227207828	245/70 R 19.5	136/134 M				Label will follow
		20547	8019227205473	265/70 R 19.5	140/138 M	D	B	71 dB 	
		21482	8019227214826	285/70 R 19.5	146/144 L	D	B	71 dB 	
		20783	8019227207835	305/70 R 19.5	148/145 M				In preparation
	22.5"	21579	8019227215793	315/70 R 22.5	154/150 L (152/148 M)	C	A	72 dB 	
		21486	8019227214864	295/80 R 22.5	152/148 M	C	B	71 dB 	
		21353	8019227213539	315/80 R 22.5	156/150 L (154/150 M)	C	A	70 dB 	
	20786	8019227207866	12 R 22.5	152/148 M				Label will follow	
TR:01™	19.5"	20784	8019227207842	245/70 R 19.5	136/134 M				M+S / Label will follow
		20548	8019227205480	265/70 R 19.5	140/138 M	D	B	74 dB 	M+S
		21483	8019227214833	285/70 R 19.5	146/144 L	D	C	74 dB 	M+S
		20785	8019227207859	305/70 R 19.5	149/145 M				M+S / In preparation
	22.5"	18907	8019227189070	315/70 R 22.5	154/150 L (152/148 M)	D	B	74 dB 	M+S
		18903	8019227189032	295/80 R 22.5	152/148 M	D	B	73 dB 	M+S
		18905	8019227189056	315/80 R 22.5	156/150 L (154/150 M)	D	B	73 dB 	M+S
		20789	8019227207897	12 R 22.5	152/148 M				M+S / Label will follow

SEGMENT

Tread pattern	Rim	IP code	EAN code	Size	Load Index / Speed code	EU TYRE LABEL			Note
									
FG:01™	22.5"	20780	8019227207804	13 R 22.5	156/150 K	C	B	72 dB 	M+S
		21845	8019227218459	295/80 R 22.5	152/148 L				M+S / Label will follow
		18920	8019227189209	315/80 R 22.5	156/150 K	D	A	71 dB 	M+S
TG:01™	22.5"	20781	8019227207811	13 R 22.5	156/150 K	D	A	75 dB 	M+S
		21846	8019227218466	295/80 R 22.5	152/148 L				M+S / Label will follow
		18921	8019227189216	315/80 R 22.5	156/150 K	E	A	74 dB 	M+S

SEGMENT TRAILER

Tread pattern	Rim	IP code	EAN code	Size	Load Index / Speed code	EU TYRE LABEL			Note
									
ST:01™	17.5"	20773	8019227207736	205/65 R 17.5	129/127 J (130/130 F)	C	B	70 dB 	FRT
		21617	8019227216172	245/70 R 17.5	143/141 J (146/146 F)	C	C	69 dB 	FRT
		21231	8019227212310	215/75 R 17.5	135/133 J	D	B	70 dB 	FRT
		20770	8019227207705	235/75 R 17.5	143/141 J (144/144 F)	C	C	69 dB 	FRT
	19.5"	19342	8019227193428	445/45 R 19.5	160 J	C	A	72 dB 	FRT
		19341	8019227193411	435/50 R 19.5	160 J	B	A	70 dB 	FRT
		21821	8019227218213	245/70 R 19.5	141/140 J				FRT / Label will follow
		21822	8019227218220	265/70 R 19.5	143/141 J				FRT / Label will follow
		21823	8019227218237	285/70 R 19.5	150/148 J				FRT / Label will follow
	22.5"	19615	8019227196153	385/55 R 22.5	160 K	B	A	72 dB 	FRT
		18929	8019227189292	385/65 R 22.5	160 K (158 L)	B	A	71 dB 	FRT

TYRE LABELLING TABLE - OTHER SERIES

 energy efficiency class

 wet grip class

 external rolling noise class

SEGMENT

Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern	EU TYRE LABEL			Note
									
22.5"	18681	8019227186819	385/55 R 22.5	158 L (160 K)	FW25	D	A	71 dB 	M+S
	15706	8019227157062	385/65 R 22.5	158 L (160 K)		C	A	73 dB 	M+S
	12325	8019227123258	295/80 R 22.5	152/148 M		D	A	71 dB 	M+S
	13450	8019227134506	295/80 R 22.5	152/148 M	TW25	E	B	75 dB 	M+S

SEGMENT

Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern	EU TYRE LABEL			Note
									
22.5"	19875	8019227198751	385/55 R 22.5	158 L (160 K)	Amaranto™ FH88	C	B	72 dB 	
	18974	8019227189742	295/60 R 22.5	150/147 L		C	B	73 dB 	
	19529	8019227195293	385/65 R 22.5	158 L (160 K)		C	A	71 dB 	
	18975	8019227189759	315/60 R 22.5	152/148 L		C	A	73 dB 	
	18914	8019227189148	275/70 R 22.5	148/145 M (150/147 L)		D	A	71 dB 	
	19556	8019227195569	305/70 R 22.5	152/150 L (150/148 M)		C	A	73 dB 	
	19205	8019227192056	315/70 R 22.5	154/150 L (152/148 M)		C	A	73 dB 	
	18916	8019227189162	295/80 R 22.5	152/148 M		C	B	70 dB 	
	18918	8019227189186	315/80 R 22.5	156/150 L (154/150 M)		C	A	70 dB 	
	18977	8019227189773	295/60 R 22.5	150/147 L	Amaranto™ TH88	E	B	74 dB 	M+S
	18976	8019227189766	315/60 R 22.5	152/148 L		F	B	75 dB 	M+S
	18915	8019227189155	275/70 R 22.5	148/145 M (150/147 L)		E	B	72 dB 	M+S
	19557	8019227195576	305/70 R 22.5	152/150 L (150/148 M)		E	B	73 dB 	M+S
	19206	8019227192063	315/70 R 22.5	154/150 L (152/148 M)		E	C	73 dB 	M+S
	18917	8019227189179	295/80 R 22.5	152/148 M		C	B	73 dB 	M+S
	18919	8019227189193	315/80 R 22.5	156/150 L (154/150 M)		E	B	73 dB 	M+S

SEGMENT 

						EU TYRE LABEL			
Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern				Note
17.5"	17282	8019227172829	205/75 R 17.5	124/122 M	FR85 Amaranto™	E	C	70 dB 	
	21473	8019227214734	215/75 R 17.5	126/124 M		E	C	72 dB 	
	17283	8019227172836	225/75 R 17.5	129/127 M		E	C	69 dB 	
	17284	8019227172843	235/75 R 17.5	132/130 M		D	C	72 dB 	
	17285	8019227172850	245/70 R 17.5	136/134 M		E	C	72 dB 	
	17286	8019227172867	205/75 R 17.5	124/122 M	TR85 Amaranto™	E	C	71 dB 	M+S
	21474	8019227214741	215/75 R 17.5	126/124 M		E	C	72 dB 	M+S
	17287	8019227172874	225/75 R 17.5	129/127 M		E	C	72 dB 	M+S
	17288	8019227172881	235/75 R 17.5	132/130 M		E	C	74 dB 	M+S
	17289	8019227172898	245/70 R 17.5	136/134 M		E	C	72 dB 	M+S
19.5"	08374	8019227083743	245/70 R 19.5	136/134 M	FH55	D	B	73 dB 	Stock clearance
	12037	8019227120370	285/70 R 19.5	145/143 M		D	B	73 dB 	Stock clearance
	08377	8019227083774	305/70 R 19.5	148/145 M		D	A	73 dB 	Stock clearance
	08556	8019227085563	245/70 R 19.5	136/134 M	TH25	F	B	77 dB 	M+S / Stock clearance
	12038	8019227120387	285/70 R 19.5	145/143 M		F	C	77 dB 	M+S / Stock clearance
	08559	8019227085594	305/70 R 19.5	148/145 M		E	B	77 dB 	M+S / Stock clearance
22.5"	06844	8019227068443	315/80 R 22.5	154/150 M (156/150 L)	FH55	C	A	73 dB 	
	06942	8019227069426	295/80 R 22.5	152/148 M		C	B	73 dB 	
	20543	8019227205435	295/80 R 22.5	152/148 M	FR28	D	B	71 dB 	
	19242	8019227192421	315/80 R 22.5	156/150 L (154/150 M)		C	B	71 dB 	
	07291	8019227072914	315/80 R 22.5	154/150 M (156/150 L)	TH65	E	B	75 dB 	M+S
	20542	8019227205428	295/80 R 22.5	152/148 M	TR28	D	C	73 dB 	M+S
	19243	8019227192438	315/80 R 22.5	156/150 L (154/150 M)		D	C	75 dB 	M+S

SEGMENT 

						EU TYRE LABEL			
Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern				Note
22.5"	19100	8019227191004	275/70 R 22.5	148/145 J (152/148 E)	MC85 Amaranto™	D	B	72 dB 	
	19101	8019227191011	275/70 R 22.5	148/145 J (152/148 E)	MC85 Amaranto™ M+S	D	B	75 dB 	M+S
	19546	8019227195460	275/70 R 22.5	148/145 J (152/148 E)	MC88 Amaranto™ M+S	D	B	74 dB 	M+S

SEGMENT 

						EU TYRE LABEL			
Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern				Note
22.5"	11023	8019227110234	385/65 R 22.5	160 K (158 L)	AP05	C	A	72 dB 	
	12884	8019227128840	12 R 22.5	152/148 L	FG85	D	B	70 dB 	
	19134	8019227191349	13 R 22.5	156/150 K	FG88	C	A	70 dB 	M+S
	19132	8019227191325	315/80 R 22.5	156/158 K		D	B	73 dB 	M+S
	12885	8019227128857	12 R 22.5	152/148 L	TG85	D	B	75 dB 	M+S
	19135	8019227191356	13 R 22.5	156/150 K	TG88	C	A	75 dB 	M+S
	19133	8019227191332	315/80 R 22.5	156/150K		D	B	74 dB 	M+S
20"	12042	8019227120424	12.00 R 20	154/150 K (156/150 G)	FG85	D	B	71 dB 	
	14238	8019227142389	12.00 R 20 (TL)	154/150 K (156/150 G)		D	B	71 dB 	
	12043	8019227120431	12.00 R 20	154/150 K (156/150 G)	TG85	D	B	75 dB 	M+S
	14239	8019227142396	12.00 R 20 (TL)	154/150 K (156/150 G)					M+S / Label will follow
24"	12045	8019227120455	12.00 R 24	160/156 K	FG85	D	B	71 dB 	
	12044	8019227120448	12.00 R 24	160/156 K	TG85	D	B	74 dB 	M+S

TYRE LABELLING TABLE - OTHER SERIES

 energy efficiency class

 wet grip class

 external rolling noise class

SEGMENT

						EU TYRE LABEL			
Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern				Note
22.5"	18226	8019227182262	13 R 22.5	156/150 F (154/150 G)	TQ99	--	--	--	Professional Off Road tyres, out of the scope of EC regulation 1222/2009

SEGMENT

						EU TYRE LABEL			
Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern				Note
20"	17241	8019227172416	335/80 R 20 MPT	147 K	PS22 Pista	--	--	--	Professional Off Road tyres, out of the scope of EC regulation 1222/2009
	16571	8019227165715	335/80 R 20 MPT	149 K		--	--	--	
	17242	8019227172423	365/80 R 20 MPT	149 K		--	--	--	
	16572	8019227165722	365/80 R 20 MPT	152 K		--	--	--	
	14674	8019227146745	14.00 R 20 ML	164/160 G		--	--	--	

SEGMENT TRAILER

						EU TYRE LABEL			
Rim	IP code	EAN code	Size	Load Index / Speed code	Tread pattern				Note
17.5"	18526	8019227185263	205/65 R 17.5	129/127 J (130/130 F)	ST55	D	B	70 dB 	FRT/Stock clearance
	14670	8019227146707	245/70 R 17.5	143/141 J (144/144 F)		E	C	72 dB 	FRT/Stock clearance
	13872	8019227138726	215/75 R 17.5	135/133 J		D	B	70 dB 	FRT/Stock clearance
	14669	8019227146691	235/75 R 17.5	143/141 F (144/144 F)		E	C	72 dB 	FRT/Stock clearance
19.5"	11859	8019227118599	245/70 R 19.5	141/140 J	ST55	E	A	72 dB 	FRT/Stock clearance
	11858	8019227118582	265/70 R 19.5	143/141 J		E	B	72 dB 	FRT/Stock clearance
22.5"	17243	8019227172430	385/65 R 22.5	160 K (158 L)	ST35	C	A	72 dB 	

NOTE

A series of horizontal dotted lines for writing notes.





POWER IS NOTHING WITHOUT CONTROL

www.pirelli.com