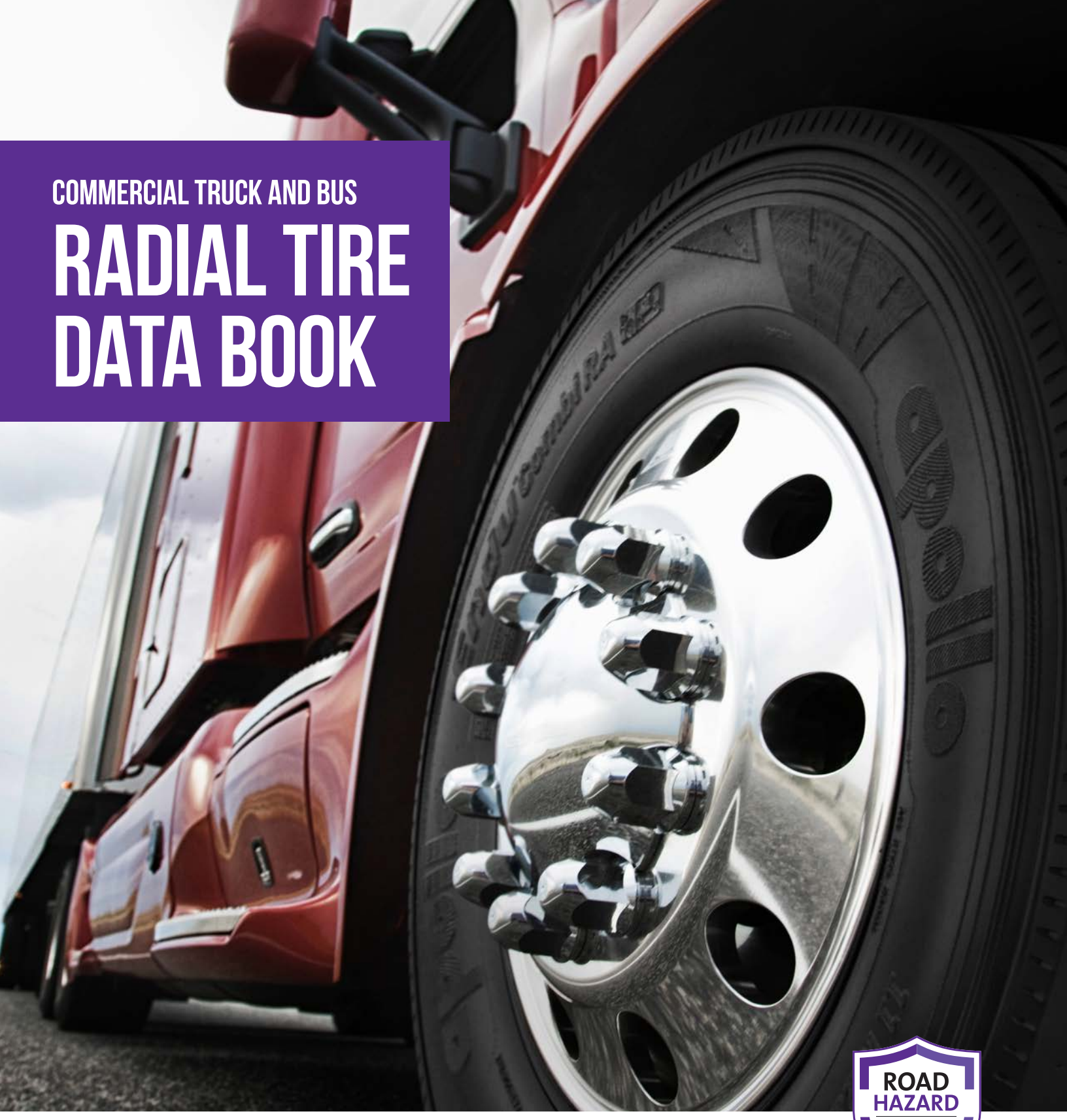
COMMERCIAL TRUCK AND BUS

RADIAL TIRE DATA BOOK



ROAD HAZARD WARRANTY

apollo TIRES

go the distance™

CONTENTS

APOLLO AT A GLANCE

A NEW WORLD. A NEW GLOBAL BRAND.

Apollo Tyres Ltd is a global tire manufacturer, with manufacturing facilities in India, the Netherlands and Hungary. The company markets products under its two global brands - Apollo and Vredestein. While Apollo is a leading brand in India and other parts of the world. Vredestein is a premium brand in Europe and America. The company's products are available in over 100 countries. We are 41 years young, ambitious and we love challenges, be it from today's demanding auto OE's, our global competitors, or from equally uncompromising consumer, commercial or agricultural customers. Because every little thing we do works to ensure that you operate your car, truck, or piece of equipment safely every day.

TECHNOLOGY DRIVES QUALITY

We're always building a better tire for you. Tire engineers at our R&D Centers in Europe and India work with the latest advancements in tire technology. All raw materials used to manufacture the various components of an Apollo Commercial Radial Truck & Bus Tire are sourced from some of the world's most reputable suppliers. Once produced, every Apollo tire undergoes rigorous testing at our global, state-of-the-art facilities, involving stringent quality checks, before it is finally released for sale.

USA
DOT
DEPARTMENT OF TRANSPORT DOT REGISTRATION

OUR SEGMENTATION

WHAT IS A PRODUCT SEGMENT?

A segment defines our product offering for customers with application specific requirements.
Each product is a blend of both operating conditions and tire performance characteristics.

All Apollo commercial truck and bus radial tire names start with **Endu®**. This reflects both the endurance and durability of our premium long-wearing tires. Apollo has defined six segments for addressing our customer's application specific requirements.

Apollo has defined six segments for addressing specific customer requirements.

R = Regional
M = Mixed Service
LH = Linehaul
U = Urban
C = Coach
S = Specialty

We develop different patterns to address all axle positions:

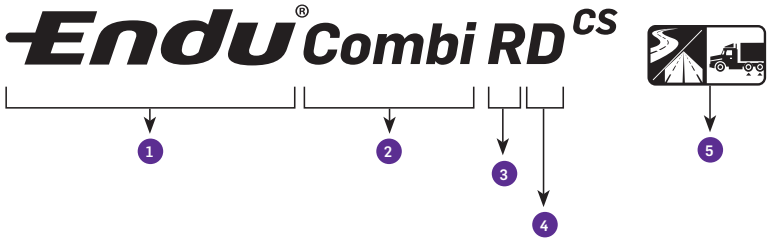
A = All Position
S = Steer
D = Drive
T = Trailer / FRT

COMPARISON CHART

	REGIONAL				
					
	All Position	Drive	Drive	Trailer	All Position
apollo TIRES	Endu®Combi RA	Endu®Combi RD^{CS}	Endu®Combi RD^{OS}	Endu®Combi RT	Endu®Trax MA
MICHELIN	XZE X Multi Energy	XDA5+ X Multi Energy D	X Multi D	XTE	XZY3
BRIDGESTONE	R268	M760	M770 M799	R196A	M870 M843
GOODYEAR	Fuel Max RSA G661 HAS	G572A G338	G182RSD	G619 RST	G288MSA
CONTINENTAL	Conti HSL 3 HSR2 Eco Plus	HDL2	HDR2 EcoPlus Conti Hybrid HD3	Conti Hybrid HT3	HSC1 Conti HSC 3
YOKOHAMA	108R 104ZR	703ZL	TY517MC2	RY023	MY507
HANKOOK	AH37	DL15	DL12	TL01	AM09(+)
TOYO	M170 M154	M677	M650	M122	M320
FIRESTONE	FS561	FD690 PLUS FD692	FD663	FT491	FS820
GENERAL	RA	HD	RD	HT	WT
SUMITOMO	ST719SES T709SE	ST948 SE	ST909	ST727	ST528

ILLUSTRATION

1. Product category.
2. Operating segment.
3. Application.
4. Axle position/pattern design.
5. Position/Segment pictogram.



MIXED		LINEHAUL		
				
All Position	Drive	Steer	Drive	Trailer
Endu®Trax MA$_{HD}$	Endu®Trax MD	Endu®Mile LHfront	Endu®Mile LHD	Endu®Mile LHT
XZY3	XDY3	X Line Energy Z	X Line Energy D	X Line Energy T
M864	L320	R284 Ecopia	M710 Ecopia	R123 Ecopia
G296MSA	G177 G282 MSD	Marathon LHS	FuelMax LHD	FuelMax LHD
HTC1 Conti HAC 3	HDR2+	Conti EcoPlus HS3+	HDL2 DL Eco Plus	Conti EcoPlus HT3
MY507A	MY627W	101ZL	712L	Bluearth 109L
AM15(+)	DM09	Al21	DL11	TL21
M320 WB	M320	M177	M647	M157
FS818	FS860	FS591	FD691	FT491
Grabber OA WB	-	GENERAL HS	GENERAL HD	GENERAL HT
ST520	ST528	ST778+ SE	ST938	ST710SE

	LINEHAUL		REGIONAL		MIXED SERVICE	
Steer + All position	22.5"	295/75R22.5 Endu®Mile LHfront	17.5"	215/75R17.5 LRG Endu®Combi RA 235/75R17.5 LRG Endu®Combi RA 245/70R17.5 LRG Endu®Combi RA	22.5"	315/80R22.5 LRL Endu®Trax MA 385/65R22.5 LRM Endu®Trax MA$_{HD}$
			19.5"	* 225/70R19.5 LRG Endu®Combi RA * 225/70R19.5 LRH Endu®Combi RA		
			22.5"	11R22.5 LRG Endu®Combi RA 11R22.5 LRH Endu®Combi RA 295/75R22.5 LRG Endu®Combi RA 295/75R22.5 LRH Endu®Combi RA 255/70R22.5 LRH Endu®Combi RA * 275/70R22.5 LRH Endu®Combi RA	24.5"	11R24.5 LRH Endu®Trax MA
			24.5"	11R24.5 LRG Endu®Combi RA 11R24.5 LRH Endu®Combi RA		
Drive	22.5"	295/75R22.5 Endu®Mile LHD	17.5"	215/75R17.5 LRG Endu®Combi RD 235/75R17.5 LRG Endu®Combi RD 245/70R17.5 LRG Endu®Combi RD	22.5"	315/80R22.5 LRL Endu®Trax MD
			22.5"	11R22.5 LRG Endu®Combi RD^{OS} 11R22.5 LRH Endu®Combi RD^{OS} 11R22.5 LRG Endu®Combi RD^{CS} 11R22.5 LRH Endu®Combi RD^{CS} 295/75R22.5 LRG Endu®Combi RD^{OS} 295/75R22.5 LRH Endu®Combi RD^{OS} 295/75R22.5 LRG Endu®Combi RD^{CS} 295/75R22.5 LRH Endu®Combi CS		
			24.5"	11R24.5 LRG Endu®Combi RD^{OS} 11R24.5 LRH Endu®Combi RD^{OS} 11R24.5 LRG Endu®Combi RD^{CS} 11R24.5 LRH Endu®Combi RD^{CS}		
Trailer	22.5"	295/75R22.5 Endu®Mile LHT	17.5"	215/75R17.5 LRG Endu®Combi RT 235/75R17.5 LRG Endu®Combi RT 245/70R17.5 LRG Endu®Combi RT		
			19.5"	* 225/70R19.5 LRG Endu®Combi RT * 225/70R19.5 LRH Endu®Combi RT		
			22.5"	11R22.5 LRG Endu®Combi RT 11R22.5 LRH Endu®Combi RT 295/75R22.5 LRG Endu®Combi RT 295/75R22.5 LRH Endu®Combi RT * 255/70R22.5 LRH Endu®Combi RT		

** Coming soon*

LINEHAUL SEGMENT

LINEHAUL FRONT
LINEHAUL STEER TIRE

A SmartWay verified Linehaul steer tire capable of delivering high mileage and multiple retreads

Endu® Mile LHfront

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTERNATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2023101	295/75R22.5	14	G	144/141	L	40.0	11.5	18	18.7	9.00	8.25	115.7	52.5	6175 lbs @ 110 psi	5675 lbs @ 110 psi
2023100	295/75R22.5	16	H	149/146	L	40.0	11.5	18	18.7	9.00	8.25	115.7	52.5	7160 lbs @ 123 psi	6610 lbs @ 123 psi

LINEHAUL DRIVE
LINEHAUL DRIVE TIRE

A SmartWay verified Linehaul drive tire that delivers excellent mileage and enhanced fuel efficiency

Endu® Mile LHD

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTERNATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2023301	295/75R22.5	14	G	144/141	L	40.3	11.4	23	18.7	9.00	8.25	126.7	57.5	6175 lbs @ 110 psi	5675 lbs @ 110 psi
2023300	295/75R22.5	16	H	149/146	L	40.3	11.4	23	18.7	9.00	8.25	126.7	57.5	7160 lbs @ 123 psi	6610 lbs @ 123 psi

LINEHAUL TRAILER
LINEHAUL TRAILER TIRE

A SmartWay verified high mileage Linehaul trailer tire

Endu® Mile LHT

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTERNATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2023605	295/75R22.5	14	G	144/141	L	39.8	11.3	12	18.7	9.00	8.25	102.5	46.5	6175 lbs @ 110 psi	5675 lbs @ 110 psi
2023604	295/75R22.5	16	H	149/146	L	39.8	11.3	12	18.7	9.00	8.25	102.5	46.5	7160 lbs @ 123 psi	6610 lbs @ 123 psi

REGIONAL SEGMENT

REGIONAL ALL POSITION
LONG-WEARING ALL POSITION TIRE

A long wearing all position tire which offers exceptional casing durability, providing multiple retread possibilities.
This tire has been specifically designed and developed for regional applications. It is also suitable for select coach operations.

Endu® Combi RA

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTER-NATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2021100	215/75R17.5	14	G	126/124	M	30.3	8.3	16	14.2	6.00	6.75	60.7	27.5	3750 lbs @ 105 psi	3525 lbs @ 105 psi
2021101	235/75R17.5	14	G	132/130	M	31.6	9.4	18	14.7	6.75	7.50	68.1	30.9	4410 lbs @ 115 psi	4190 lbs @ 115 psi
2021102	245/70R17.5	14	G	136/134	M	31.1	9.7	18	14.5	7.50	6.75	76.1	34.5	4940 lbs @ 125 psi	4675 lbs @ 125 psi
*2021104	225/70R19.5	14	G	128/126	L	32.2	8.9	16	14.9	6.75	6.00	71.0	32.2	3970 lbs @ 110 psi	3750 lbs @ 110 psi
*2021103	225/70R19.5	16	H	130/128	L	32.2	8.9	16	14.9	6.75	6.00	71.0	32.2	4190 lbs @ 120 psi	3970 lbs @ 120 psi
*2021113	265/70R19.5	14	G	140/138	M	34.0	10.3	15	15.8	7.50	8.25	92.4	41.9	5510 lbs @ 112 psi	5205 lbs @ 112 psi
2021106	11R22.5	14	G	144/142	L	41.2	11.1	20	19.3	8.25	7.50	129.0	58.5	6175 lbs @ 105 psi	5840 lbs @ 105 psi
2021105	11R22.5	16	H	146/143	L	41.2	11.1	20	19.3	8.25	7.50	129.0	58.5	6610 lbs @ 120 psi	6005 lbs @ 120 psi
2021107	255/70R22.5	16	H	140/137	M	36.6	9.9	17	17.1	7.50	6.75	129.0	42.9	5510 lbs @ 120 psi	5070 lbs @ 120 psi
*2021108	275/70R22.5	18	J	148/145	L	37.4	10.8	17	17.5	8.25	7.50	116.6	52.9	6940 lbs @ 130 psi	6395 lbs @ 130 psi
2021110	295/75R22.5	14	G	144/141	L	40.2	11.5	20	18.7	9.00	8.25	127.4	57.8	6175 lbs @ 110 psi	5675 lbs @ 110 psi
2021109	295/75R22.5	16	H	149/146	L	40.2	11.5	20	18.7	9.00	8.25	127.4	57.8	7160 lbs @ 123 psi	6610 lbs @ 123 psi
2021112	11R24.5	14	G	146/143	L	43.3	11.2	21	20.2	8.25	7.50	140.9	63.9	6610 lbs @ 105 psi	6005 lbs @ 105 psi
2021111	11R24.5	16	H	149/146	L	43.3	11.2	21	20.2	8.25	7.50	140.9	63.9	7160 lbs @ 120 psi	6610 lbs @ 120 psi

** Coming soon*

REGIONAL DRIVE

LONG WEARING DRIVE TIRE WITH EXCELLENT TRACTION, DURABILITY AND RETREADABILITY

A long wearing drive tire which offers exceptional casing durability, providing multiple retread opportunities. The RD^{OS} pattern offers optimum traction, which has been designed and developed specifically for regional applications. The RD^{CS} pattern offers long mileage and is also suitable for super regional or medium haul applications.

Endu® Combi RD^{CS}

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTER-NATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2021301	11R22.5	14	G	144/142	L	41.4	11.1	25	19.3	8.25	7.50	138.7	62.9	6175 lbs @ 105 psi	5840 lbs @ 105 psi
2021300	11R22.5	16	H	146/143	L	41.4	11.1	25	19.3	8.25	7.50	138.7	62.9	6610 lbs@120 psi	6005 lbs @120 psi
2021303	295/75R22.5	14	G	144/141	L	40.4	11.5	25	18.7	9.00	8.25	137.6	62.4	6175 lbs @ 110 psi	5675 lbs @ 110 psi
2021302	295/75R22.5	16	H	149/146	L	40.4	11.5	25	18.7	9.00	8.25	137.6	62.4	7160 lbs @ 123 psi	6610 lbs @ 123 psi
2021305	11R24.5	14	G	146/143	L	43.5	11.2	23	20.2	8.25	7.50	147.5	66.9	6610 lbs @ 105 psi	6005 lbs @ 105 psi
2021304	11R24.5	16	H	149/146	L	43.5	11.2	23	20.2	8.25	7.50	147.5	66.9	7160 lbs @ 120 psi	6610 lbs @ 120 psi

Endu® Combi RD^{OS}

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTER-NATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2021350	215/75R17.5	14	G	126/124	M	30.3	8.3	19	13.8	6.00	6.75	62.8	28.4	3750 lbs @ 105 psi	3525 lbs @ 105 psi
2021351	235/75R17.5	14	G	132/130	M	31.6	9.4	19	14.3	6.75	7.50	68.3	31.0	4410 lbs @ 115 psi	4190 lbs @ 115 psi
2021352	245/70R17.5	14	G	136/134	M	31.2	9.7	19	14.2	7.50	6.75	79.4	36.0	4940 lbs @ 125 psi	4675 lbs @ 125 psi
*2021359	265/70R19.5	14	G	140/138	M	34.1	10.3	16	15.6	7.5	8.25	79.4	44.9	5510 lbs @ 112 psi	5205 lbs @ 112 psi
2021354	11R22.5	14	G	144/142	L	41.4	11.1	25	19.3	8.25	7.50	138.7	62.9	6175 lbs @ 105 psi	5840 lbs @ 105 psi
2021353	11R22.5	16	H	146/143	L	41.4	11.1	25	19.3	8.25	7.50	138.7	62.9	6610 lbs@120 psi	6005 lbs @120 psi
2021356	295/75R22.5	14	G	144/141	L	40.4	11.5	25	18.7	9.00	8.25	137.6	62.4	6175 lbs @ 110 psi	5675 lbs @ 110 psi
2021355	295/75R22.5	16	H	149/146	L	40.4	11.5	25	18.7	9.00	8.25	137.6	62.4	7160 lbs @ 123 psi	6610 lbs @ 123 psi
2021358	11R24.5	14	G	146/143	L	43.5	11.2	23	20.2	8.25	7.50	147.5	66.9	6610 lbs @ 105 psi	6005 lbs @ 105 psi
2021357	11R24.5	16	H	149/146	L	43.5	11.2	23	20.2	8.25	7.50	147.5	66.9	7160 lbs @ 120 psi	6610 lbs @ 120 psi

** Coming soon*

REGIONAL TRAILER

EXCEPTIONALLY DURABLE REGIONAL TRAILER TIRE

A long-wearing, trailer tire with high scrub resistance. This tire offers exceptional casing durability, providing multiple retread opportunities.

Endu® Combi RT

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTER-NATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2021600	215/75R17.5	16	H	135/133	K	30.3	8.4	17	14.2	6.00	6.75	68.6	31.1	4805 lbs @123 psi	4540 lbs @123 psi
2021601	235/75R17.5	16	H	143/141	K	31.5	9.4	17	14.6	6.75	7.50	76.5	34.7	6005 lbs @125 psi	5675 lbs @ 125 psi
2021602	245/70R17.5	16	H	143/141	K	31.1	9.8	17	14.5	7.50	6.75	75.4	34.2	6005 lbs @125 psi	5675 lbs @ 125 psi
*2021603	265/70R19.5	16	H	143/141	K	34.2	10.1	17	15.8	7.50	8.25	75.4	44.5	6005 lbs @123 psi	5675 lbs @ 123 psi
2021605	11R22.5	14	G	144/142	L	40.9	11.1	16	19.3	8.25	7.50	120.6	54.7	6175 lbs @ 105 psi	5840 lbs @ 105 psi
2021604	11R22.5	16	H	146/143	L	40.9	11.1	16	19.3	8.25	7.50	120.6	54.7	6610 lbs @120 psi	6005 lbs @120 psi
2021607	255/70R22.5	14	G	138/134	L	36.3	9.9	12	17.1	7.50	6.75	90.2	40.9	5205 lbs @ 110 psi	4675 lbs @ 110 psi
2021606	255/70R22.5	16	H	140/137	L	36.3	9.9	12	17.1	7.50	6.75	90.2	40.9	5510 lbs @ 120 psi	5070 lbs @ 120 psi
2021610	295/75R22.5	14	G	144/141	L	40.0	11.4	16	18.7	9.00	8.25	115.5	52.4	6175 lbs @ 110 psi	5675 lbs @ 110 psi
2021609	295/75R22.5	16	H	149/146	L	40.0	11.4	16	18.7	9.00	8.25	115.5	52.4	7160 lbs @ 123 psi	6610 lbs @123 psi

** Coming soon*


apollo

MIXED SERVICE SEGMENT

MIXED ALL WHEEL
ROBUST ALL-WHEEL POSITION TIRE

Specifically designed for on / off road usage; a robust all position and trailer tire with excellent grip and high uptime.

Endu® Trax MA

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTERNATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2021803	315/80R22.5	20	L	161/157	K	42.6	12.3	21	19.7	9.00	9.75	152.8	69.3	10200 lbs @ 130 psi	9090 lbs @ 130 psi
2021805	11R22.5	16	H	148/145	K	41.6	11	19	19.3	8.25	9.00	128.9	58.4	6940 lbs @ 123 psi	6395 lbs @ 123 psi
2021804	11R24.5	16	H	149/146	L	43.2	11.0	25	20.2	8.25	7.50	142.2	64.5	7160 lbs @ 120 psi	6610 lbs @ 120 psi
2021802	12R22.5	16	H	152/148	K	43.3	11.9	29	19.9	9.00	8.25	141.3	64.1	7830 lbs @ 123 psi	6940 lbs @ 123 psi

Endu® Trax MA HD

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTERNATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2021801	385/65R22.5	22	M	164	K	42.2	15.1	22	19.6	11.75	12.25	171.3	77.7	11000 lbs @ 130 psi	N/A

MIXED DRIVE

ROBUST DRIVE TIRE WITH EXCELLENT TRACTION

Specifically designed for on / off road usage; a robust drive tire with outstanding traction and high impact resistance.

Endu® Trax MD

PRODUCT CODE	TIRE SIZE	PLY RATING	LOAD RANGE	LOAD INDEX	SPEED SYMBOL	OVERALL DIAMETER (INCH)	SECTION WIDTH (INCH)	ORIGINAL TREAD DEPTH (1/32")	STATIC LOADED RADIUS (INCH)	RECOM-MENDED RIM WIDTH (INCH)	ALTER-NATE RIM WIDTH (INCH)	TIRE WEIGHT		LOAD DETAILS (LBS)	
												LBS	KG	SINGLE	DUAL
2021850	315/80R22.5	20	L	157/154	K	43.1	12.3	30	19.7	9.00	9.75	168	76.2	9090 lbs @ 130 psi	8270 lbs @ 130 psi

TECHNICAL DATA

Guidelines according to rim size and axle position

TIRE DESCRIPTION & MARKINGS											
Rim Size (inch)	Product Code	Tire Size	Tire Name	Tire Position	Load Range	Load Index	Speed Symbol	Ply Rating	M+S	3 PMSF	Smart-Way
Linehaul 22.5”	2023101	295/75R22.5	**EnduMile LHfront**	Steer	G	144/141	L	14	✔		✔
	2023100	295/75R22.5	**EnduMile LHfront**	Steer	H	149/146	L	16	✔		✔
	2023301	295/75R22.5	**EnduMile LHD**	Drive	G	144/141	L	14	✔		✔
	2023300	295/75R22.5	**EnduMile LHD**	Drive	H	149/146	L	16	✔		✔
	2023605	295/75R22.5	**EnduMile LHT**	Trailer	G	144/141	L	14	✔		✔
	2023604	295/75R22.5	**EnduMile LHT**	Trailer	H	149/146	L	16	✔		✔
Regional 17.5”	2021100	215/75R17.5	**EnduCombi RA**	All Position	G	126/124	M	14	✔	✔	
	2021350	215/75R17.5	**EnduCombi RD**	Drive	G	126/124	M	14	✔	✔	
	2021600	215/75R17.5	**EnduCombi RT**	Trailer	H	135/133	K	16	✔	✔	
	2021101	235/75R17.5	**EnduCombi RA**	All Position	G	132/130	M	14	✔	✔	
	2021351	235/75R17.5	**EnduCombi RD**	Drive	G	132/130	M	14	✔	✔	
	2021601	235/75R17.5	**EnduCombi RT**	Trailer	H	143/141	K	16	✔	✔	
	2021102	245/70R17.5	**EnduCombi RA**	All Position	G	136/134	M	14	✔	✔	
	2021352	245/70R17.5	**EnduCombi RD**	Drive	G	136/134	M	14	✔	✔	
	2021602	245/70R17.5	**EnduCombi RT**	Trailer	H	143/141	K	16	✔	✔	
Regional 19.5”	*2021104	*225/70R19.5	**EnduCombi RA**	All Position	G	128/126	L	14	✔		
	*2021103	*225/70R19.5	**EnduCombi RA**	All Position	H	130/128	L	16	✔		
	*2021113	*265/70R19.5	**EnduCombi RA**	All Position	G	140/138	M	14	✔		
	*2021359	*265/70R19.5	**EnduCombi RD**	Drive	G	140/138	M	14	✔		
	*2021603	*265/70R19.5	**EnduCombi RT**	Trailer	H	143/141	K	16	✔		
Regional 22.5”	2021106	11R22.5	**EnduCombi RA**	All Position	G	144/142	L	14	✔	✔	✔
	2021105	11R22.5	**EnduCombi RA**	All Position	H	146/143	L	16	✔	✔	✔
	2021301	11R22.5	**EnduCombi RD^{CS}**	Drive	G	144/142	L	14	✔	✔	✔
	2021300	11R22.5	**EnduCombi RD^{CS}**	Drive	H	146/143	L	16	✔	✔	✔

** Coming soon*

TIRE DIMENSIONS AND RIM DATA										LOAD CAPACITY PER AXLE (LBS) @PRESSURE	
Section Width (Inch)	Overall Diameter (inch)	Tire Weight		Original Tread Depth (1/32")	Recommended Rim Width (inch)	Alternate Rim Width (inch)	Static Loaded Radius (inch)	Rolling Circumference (inch)	Minimum Dual Spacing (inch)	Load Details (lbs)	
		lbs	Kg							Single	Dual
11.5	40.0	115.7	52.5	18	9.00	8.25	18.7	121.8	13.2	6175 lbs @ 110 psi	5675 lbs @ 110 psi
11.5	40.0	115.7	52.5	18	9.00	8.25	18.7	121.8	13.2	7160 lbs @ 123 psi	6610 lbs @ 123 psi
11.4	40.3	126.7	57.5	23	9.00	8.25	18.7	121.8	13.2	6175 lbs @ 110 psi	5675 lbs @ 110 psi
11.4	40.3	126.7	57.5	23	9.00	8.25	18.7	121.8	13.2	7160 lbs @ 123 psi	6610 lbs @ 123 psi
11.3	39.8	102.5	46.5	12	9.00	8.25	18.7	121.8	13.2	6175 lbs @ 110 psi	5675 lbs @ 110 psi
11.3	39.8	102.5	46.5	12	9..00	8.25	18.7	121.8	13.2	7160 lbs @ 123 psi	6610 lbs @ 123 psi
8.3	30.3	60.7	27.5	16	6.00	6.75	14.2	92.1	9.4	3750 lbs @ 105 psi	3525 lbs @ 105 psi
8.3	30.3	62.6	28.4	19	6.00	6.75	14.2	92.1	9.4	3750 lbs @ 105 psi	3525 lbs @ 105 psi
8.4	30.3	68.6	31.1	17	6.00	6.75	13.8	92.1	9.4	4805 lbs @123 psi	4540 lbs @123 psi
9.4	31.6	68.1	30.9	18	6.75	7.50	14.7	95.7	10.3	4410 lbs @ 115 psi	4190 lbs @ 115 psi
9.4	31.6	68.3	31.0	19	6.75	7.50	14.7	95.7	10.3	4410 lbs @ 115 psi	4190 lbs @ 115 psi
9.4	31.5	76.5	34.7	17	6.75	7.50	14.3	95.7	10.3	6005 lbs @ 125 psi	5675 lbs @ 125 psi
9.7	31.1	76.1	34.5	18	7.50	6.75	14.5	94.7	11.0	4940 lbs @ 125 psi	4675 lbs @ 125 psi
9.7	31.2	79.4	36.0	19	7.50	6.75	14.5	94.7	11.0	4940 lbs @ 125 psi	4675 lbs @ 125 psi
9.8	31.1	75.4	34.2	17	7.50	6.75	14.2	94.7	11.0	6005 lbs @ 125 psi	5675 lbs @ 125 psi
8.9	32.2	71.0	32.2	16	6.75	6.00	14.9	97.4	10.0	3970 lbs @ 110 psi	3750 lbs @ 110 psi
8.9	32.2	71.0	32.2	16	6.75	6.00	14.9	97.4	10.0	4190 lbs @ 120 psi	3970 lbs @ 120 psi
10.3	34.0	91.5	41.5	15	7.50	8.25	15.8	104.1	11.6	5510 lbs @ 112 psi	5205 lbs @ 112 psi
10.3	34.1	79.4	44.9	16	7.50	8.25	15.8	104.1	11.6	5510 lbs @ 112 psi	5205 lbs @ 112 psi
10.1	34.2	75.4	44.0	17	7.50	8.25	15.6	104.1	11.6	6005 lbs @123 psi	5675 lbs @ 123 psi
11.1	41.2	129.0	58.5	20	8.25	7.50	19.3	126.1	12.5	6175 lbs @ 105 psi	5840 lbs @ 105 psi
11.1	41.2	129.0	58.5	20	8.25	7.50	19.3	126.1	12.5	6610 lbs @ 120 psi	6005 lbs @ 120 psi
11.1	41.4	138.7	62.9	25	8.25	7.50	19.3	126.1	12.5	6175 lbs @ 105 psi	5840 lbs @ 105 psi
11.1	41.4	138.7	62.9	25	8.25	7.50	19.3	126.1	12.5	6610 lbs @ 120 psi	6005 lbs @ 120 psi

TIRE DESCRIPTION & MARKINGS

Rim Size (inch)	Product Code	Tire Size	Tire Name	Tire Position	Load Range	Load Index	Speed Symbol	Ply Rating	M+S	3 PMSF	Smart-Way
Regional 22.5"	2021354	11R22.5	**EnduCombi RD^{OS}**	Drive	G	144/142	L	14	✔		
	2021353	11R22.5	**EnduCombi RD^{OS}**	Drive	H	146/143	L	16	✔		
	2021605	11R22.5	**EnduCombi RT**	Trailer	G	144/142	L	14	✔		
	2021604	11R22.5	**EnduCombi RT**	Trailer	H	146/143	L	16	✔		
	2021107	255/70R22.5	**EnduCombi RA**	All Position	H	140/137	M	16	✔		
	2021108	275/70R22.5	**EnduCombi RA**	All Position	J	148/145	L	18	✔		
	2021110	295/75R22.5	**EnduCombi RA**	All Position	G	144/141	L	14	✔	✔	✔
	2021109	295/75R22.5	**EnduCombi RA**	All Position	H	149/146	L	16	✔	✔	✔
	2021303	295/75R22.5	**EnduCombi RD^{CS}**	Drive	G	144/141	L	14	✔	✔	✔
	2021302	295/75R22.5	**EnduCombi RD^{CS}**	Drive	H	149/146	L	16	✔	✔	✔
	2021356	295/75R22.5	**EnduCombi RD^{OS}**	Drive	G	144/141	L	14	✔		
	2021355	295/75R22.5	**EnduCombi RD^{OS}**	Drive	H	149/146	L	16	✔		
	2021610	295/75R22.5	**EnduCombi RT**	Trailer	G	144/141	L	14	✔		
	2021609	295/75R22.5	**EnduCombi RT**	Trailer	H	149/146	L	16	✔		
Regional 24.5"	2021112	11R24.5	**EnduCombi RA**	All Position	G	146/143	L	14	✔	✔	
	2021111	11R24.5	**EnduCombi RA**	All Position	H	149/146	L	16	✔	✔	
	2021305	11R24.5	**EnduCombi RD^{CS}**	Drive	G	146/143	L	14	✔		
	2021304	11R24.5	**EnduCombi RD^{CS}**	Drive	H	149/146	L	16	✔		
	2021358	11R24.5	**EnduCombi RD^{OS}**	Drive	G	146/143	L	14	✔		
	2021357	11R24.5	**EnduCombi RD^{OS}**	Drive	H	149/146	L	16	✔		
Mixed Service 22.5" & 24.5"	2021803	315/80R22.5	**EnduTrax MA**	All Position	L	161/157	K	20	✔	✔	
	2021850	315/80R22.5	**EnduTrax MD**	Drive	L	157/154	K	20	✔	✔	
	2021801	385/65R22.5	**EnduTrax MA ^{HD}**	Steer / Trailer	M	164	K	22	✔		
	2021805	11R22.5	**EnduTrax MA**	All Position	H	148/145	K	16	✔	✔	
	2021802	12R22.5	**EnduTrax MA**	All Position	H	152/148	K	16	✔	✔	
	2021804	11R24.5	**EnduTrax MA**	All Position	H	149/146	L	16	✔		

TIRE DIMENSIONS AND RIM DATA										LOAD CAPACITY PER AXLE (LBS) @PRESSURE	
Section Width (Inch)	Overall Diameter (inch)	Tire Weight		Original Tread Depth (1/32")	Recommended Rim Width (inch)	Alternate Rim Width (inch)	Static Loaded Radius (inch)	Rolling Circumference (inch)	Minimum Dual Spacing (inch)	Load Details (lbs)	
		lbs	Kg							Single	Dual
11.1	41.4	138.7	62.9	25	8.25	7.50	19.3	126.1	12.5	6175 lbs @ 105 psi	5840 lbs @ 105 psi
11.1	41.4	138.7	62.9	25	8.25	7.50	19.3	126.1	12.5	6610 lbs @ 120 psi	6005 lbs @ 120 psi
11.1	40.9	120.6	54.7	16	8.25	7.50	19.3	126.1	12.5	6175 lbs @ 105 psi	5840 lbs @ 105 psi
11.1	40.9	120.6	54.7	16	8.25	7.50	19.3	126.1	12.5	6610 lbs @ 120 psi	6005 lbs @ 120 psi
9.9	36.6	129.0	42.9	17	7.50	6.75	17.1	111.7	11.3	5510 lbs @ 120 psi	5070 lbs @ 120 psi
10.8	37.4	116.6	52.9	17	8.25	7.50	17.5	114.9	12.2	6940 lbs @ 130 psi	6395 lbs @ 130 psi
11.5	40.2	127.4	57.8	20	9.00	8.25	18.7	121.8	13.2	6175 lbs @ 110 psi	5675 lbs @ 110 psi
11.5	40.2	127.4	57.8	20	9.00	8.25	18.7	121.8	13.2	7160 lbs @ 123 psi	6610 lbs @ 123 psi
11.5	40.4	137.6	62.4	25	9.00	8.25	18.7	121.8	13.2	6175 lbs @ 110 psi	5675 lbs @ 110 psi
11.5	40.4	137.6	62.4	25	9.00	8.25	18.7	121.8	13.2	7160 lbs @ 125 psi	6610 lbs @ 125 psi
11.5	40.4	137.6	62.4	25	9.00	8.25	18.7	121.8	13.2	6175 lbs @ 110 psi	5675 lbs @ 110 psi
11.5	40.4	137.6	62.4	25	9.00	8.25	18.7	121.8	13.2	7160 lbs @ 123 psi	6610 lbs @ 123 psi
11.4	40.0	115.5	52.4	16	9.00	8.25	18.7	121.8	13.2	6175 lbs @ 110 psi	5675 lbs @ 110 psi
11.4	40.0	115.5	52.4	16	9.00	8.25	18.7	121.8	13.2	7160 lbs @ 123 psi	6610 lbs @ 123 psi
11.2	43.3	141.1	64.0	21	8.25	7.50	20.2	132.6	12.5	6610 lbs @ 105 psi	6005 lbs @ 105 psi
11.2	43.3	141.1	64.0	21	8.25	7.50	20.2	132.6	12.5	7160 lbs @ 120 psi	6610 lbs @ 120 psi
11.2	43.5	147.7	67.0	23	8.25	7.50	20.2	132.6	12.5	6610 lbs @ 105 psi	6005 lbs @ 105 psi
11.2	43.5	147.7	67.0	23	8.25	7.50	20.2	132.6	12.5	7160 lbs @ 120 psi	6610 lbs @ 120 psi
11.2	43.5	147.7	67.0	23	8.25	7.50	20.2	132.6	12.5	6610 lbs @ 105 psi	6005 lbs @ 105 psi
11.2	43.5	147.7	67.0	23	8.25	7.50	20.2	132.6	12.5	7160 lbs @ 120 psi	6610 lbs @ 120 psi
12.3	42.6	152.8	69.3	21	9.00	9.75	19,7	132.6	12.5	10200 lbs @ 130 psi	9090 lbs @ 130 psi
12.3	43.1	168.0	76.2	30	9.00	9.75	19.7	129.2	13.8	9090 lbs @ 130 psi	8270 lbs @ 130 psi
15.1	42.2	171.3	77.7	22	11.75	12.25	19.7	128.7		11000 lbs @ 130 psi	
11.0	41.6	128.9	58.4	19	8.25	9.00	19.30	129.20	12.50	6940 lbs @ 123 psi	6395 lbs @ 123 psi
11.0	43.3	141.3	64.1	29	9.00	8.25	19.9	130.2	13.5	7830 lbs @ 123 psi	6940 lbs @ 123 psi
11.0	43.2	142.2	64.5	25	8.25	7.50	20.2	132.6	12.5	7160 lbs @ 120 psi	6610 lbs @ 120 psi

LOAD TABLE

Conversion of Load indexes (LI) into load capacities per tire (kg and lbs).

LI	KG	LBS
80	450	990
81	462	1020
82	475	1045
83	487	1075
84	500	1100
85	515	1135
86	530	1170
87	545	1200
88	560	1235
89	580	1280
90	600	1325
91	615	1355
92	630	1390
93	650	1435
94	670	1475
95	690	1520
96	710	1565
97	730	1610
98	750	1655
99	775	1710
100	800	1765
101	825	1820
102	850	1875
103	875	1930
104	900	1965
105	925	2040
106	950	2095
107	975	2150
108	1000	2205
109	1030	2270
110	1060	2335
111	1090	2405
112	1120	2470
113	1150	2535
114	1180	2600
115	1215	2680
116	1250	2755
117	1285	2835
118	1320	2910
119	1360	3000
120	1400	3085
121	1450	3195
122	1500	3305
123	1550	3415
124	1600	3525
125	1650	3640

LI	KG	LBS
126	1700	3750
127	1750	3860
128	1800	3970
129	1850	4080
130	1900	4190
131	1950	300
132	2000	4410
133	2060	4540
134	2120	4675
135	2180	4805
136	2240	4940
137	2300	5070
138	2360	5205
139	2430	5355
140	2500	5510
141	2575	5675
142	2650	5840
143	2725	6010
144	2800	6175
145	2900	6395
146	3000	6615
147	3075	6780
148	3150	6945
149	3250	7165
150	3350	7385
151	3450	7605
152	3550	7825
153	3650	8045
154	3750	8265
155	3875	8545
156	4000	8820
157	4125	9095
158	4250	9370
159	4375	9645
160	4500	9920
161	4625	10195
162	4750	10470
163	4875	10745
164	5000	11025
165	5150	11355
166	5300	11685
167	5450	12015
168	5600	12345
169	5800	12785
170	6000	13230

SPEED TABLE

Speed symbols (mph and km/h).

SYMBOL	D	E	F	G	J	K	L	M	N	P	Q	R	S	T
mph	40	43	50	56	62	68	75	81	87	93	99	106	112	118
km/h	65	70	80	90	100	110	120	130	140	150	160	170	180	190

RETREADING & REGROOVING

RETREADING

Apollo Truck & Bus Radial tires are a premium engineered product, possessing the inherent casing strength required to ensure multiple retread lives. Depending upon the application, our products are designed and manufactured to endure multi-million flex cycles without any fatigue failure.

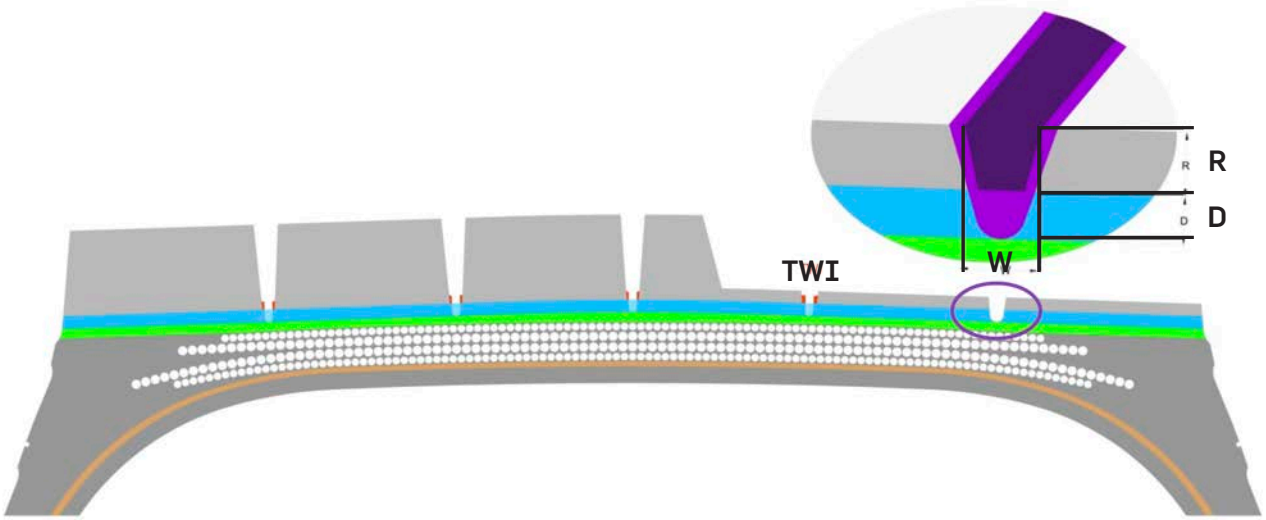
With the foundation of our strong casing construction, along with our tires capability to demonstrate its durability throughout its service life, make it the tire of choice where multiple retreads are desired.

REGROOVING GUIDELINES

Subject to usage conditions and regular tire maintenance. Apollo's highly durable casings can provide multiple tire lives. Regrooving and retreading ensures longer serviceability of tires, and helps Apollo Tyres customers to lower their operating costs.

- Regrooving is done on either new or retreaded tire on which the tread pattern has been renewed by cutting into the tread deeper than the original moulded groove depth.
- The regrooving of truck tires should be entrusted solely to fully trained operators.
- Only genuine certified regrooving tools with electrically heated blades should be used.
- A minimum depth of 2/32" remaining undertread rubber is essential to avoid damage at the top breaker belt.
- Particular care should be taken while selecting tires for regrooving and if heavily damaged in the tread area, the tires should be retreaded instead of regrooved.
- Under no circumstances should a tire be regrooved if it is not marked as "regroovable" on the sidewall area by the tire manufacturer.

R: Remaining Tread Depth **D:** Nominal re-grooving Depth **W:** Regrooving Width **TWI:** Tread Wear Indicator



TIRE CONSTRUCTION AND DIMENSIONS

Tread:
Tread comes in direct contact with the road and provides traction required to manoeuvre the vehicle. The design of the tread varies with the application type and axle position in the vehicle. The tread base helps in minimising the temperature.

Belts:
Steel belts stabilise the tread, minimise distortion of the tire surface contacting the ground and provide puncture resistance. Steel belts restrict case growing during use and increase the tire's structural strength.

Body ply:
These plies gives the tire its structural strength, ability to contain air pressure, its deflection characteristics and provides sidewall impact resistance. They transmit all load, driving, braking and steering forces between the wheel and tire tread.

Belt edge filler:
Rubber skim is placed at the ends of working belts. This aims to reduce the shear forces acting on the belt ends during the tire use.

Shoulder cushion:
Shoulder cushions are contoured rubber strips placed on the body ply under the belt ends. They help provide belt contouring and insulate the body ply from belt edges.

Sidewall:
The sidewall flexing enables ride comfort and lateral stability. The surface of the sidewall is engraved with all information relating to the loading and speed capacity, inflation pressure. and brand/product name.

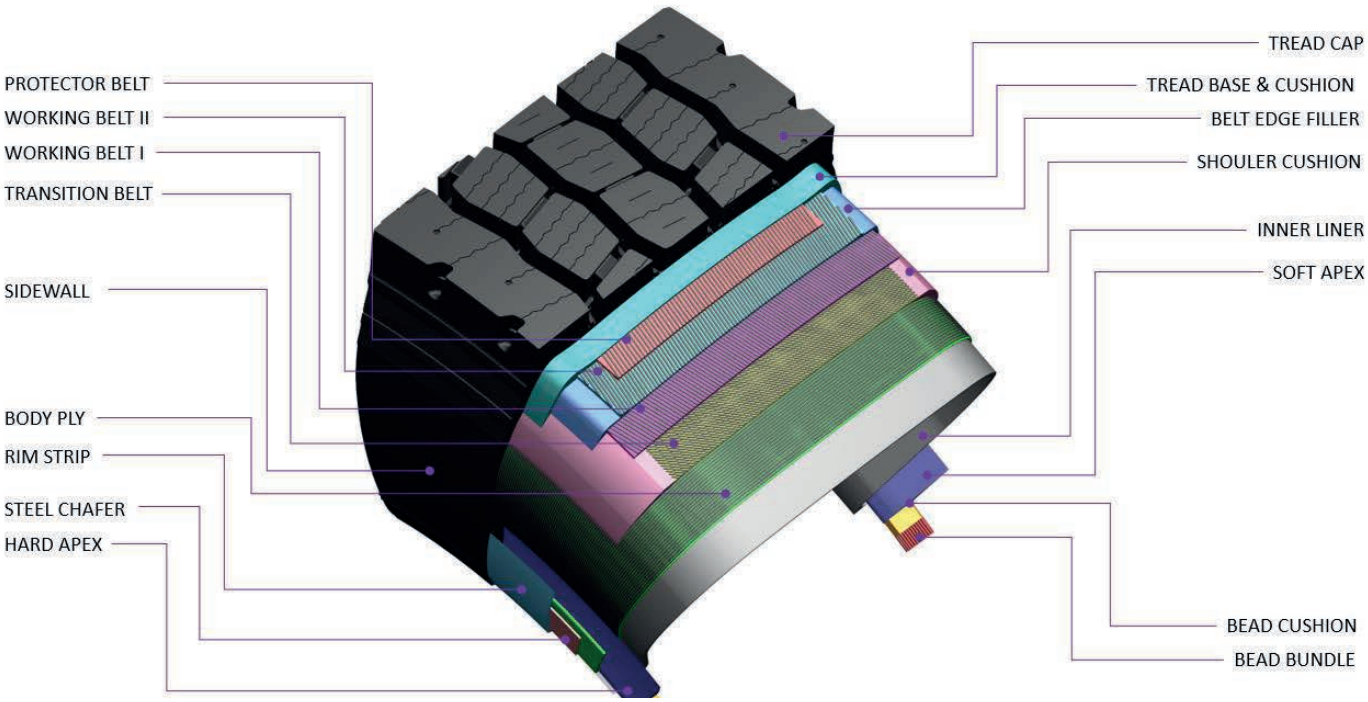
Bead bundle:
Bead bundles are continuous rubber-coated high tensile wires wound to form a high-strength unit to the specific diameter that fits the inflated tire perfectly on a wheel rim. They are the anchor that maintains the carcass seated on the rim, and resists the pull force of carcass cords tensioned by inflation pressure.

Inner liner:
This is made from a compound with very low permeability. It prevents the diffusion of air and moisture through the tire structure.

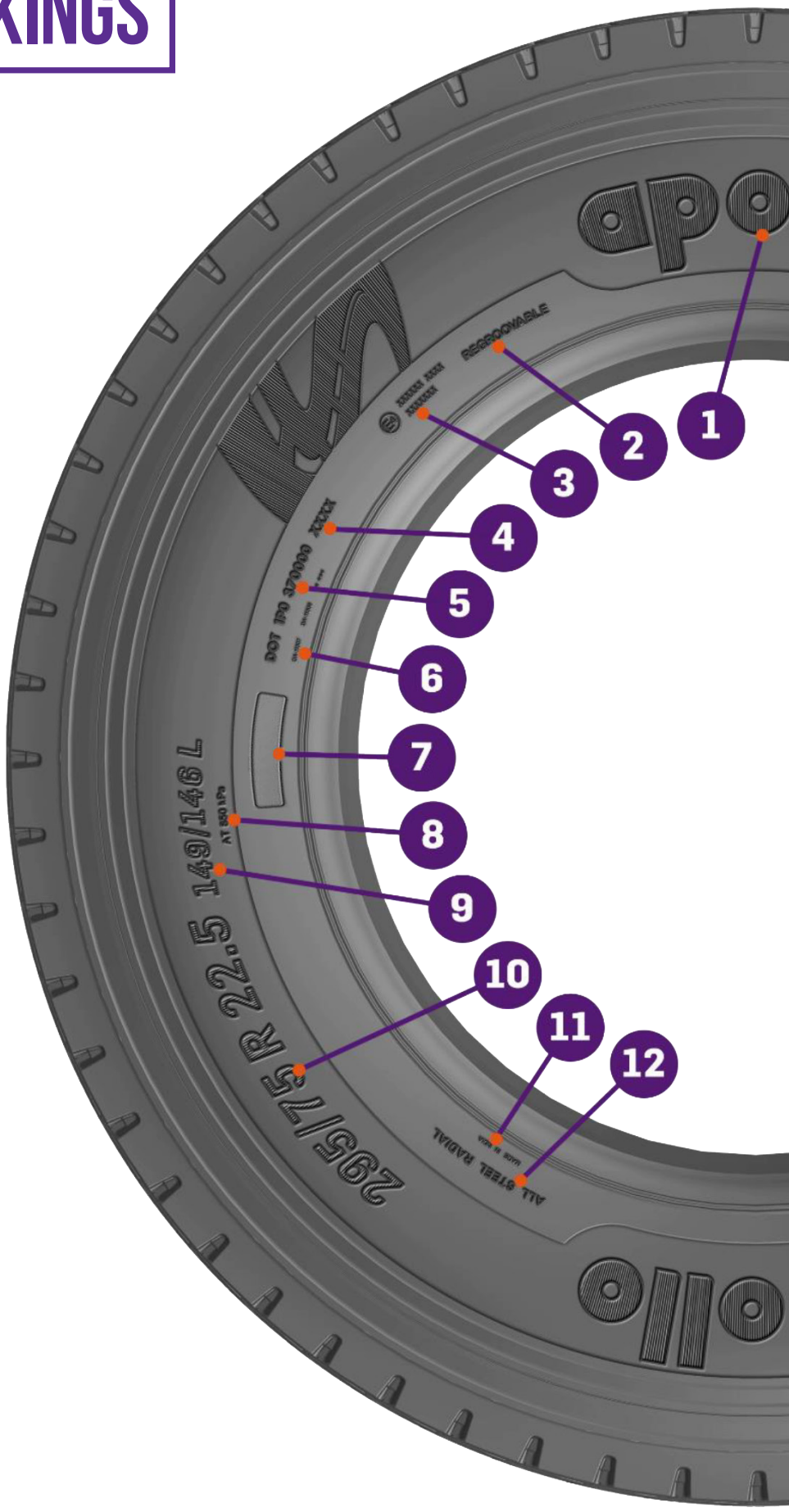
Rim strip:
This is the rubber layer between body ply and wheel rim. It is in direct contact with the wheel rim and is designed to undergo the rigour of mounting and demounting.

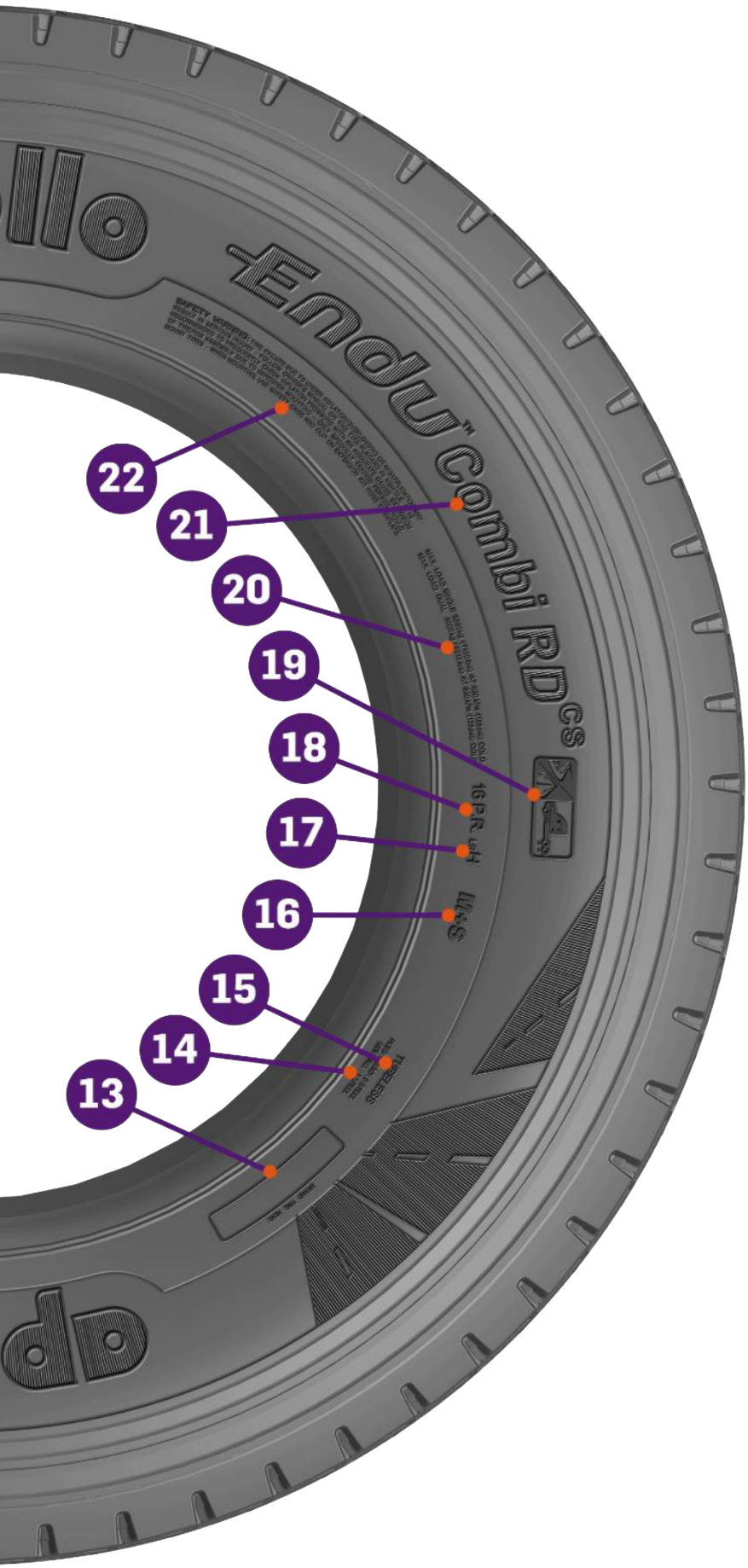
Apex:
The apex is a rubber profile place above the bead bundle, which provides a smooth transition from the stiff bead area to the flexible sidewall.

Chafer:
The chafer is a strip of wire placed around the body ply cord in the bead area. Its purpose is to protect the bead area from damage during mounting/ demounting and reduce the effects of chafing between the wheel and tire.



SIDEWALL MARKINGS





1. Manufacturer's name
2. Regroovable
3. ECE marking
4. Week and year code
5. Dot marking
6. Mould reference number
7. Serial number
8. Test inflation pressure
9. Nominal load index and speed symbol
10. Size marking
11. Country of origin
12. All steel radial
13. Provision for hot branding
14. Construction details
15. Tubeless
16. M+S/traction marking
17. Load range
18. Ply rating
19. Pictogram
20. Load and speed details
21. Product name
22. Safety warning

WARRANTY TERMS

ELIGIBILITY

This limited warranty applies to the original purchase of any new APOLLO Truck & Bus Radial tires ("TBR") having the Department of Transportation ("DOT") prescribed tire identification number on the tire sidewall. Such tires are eligible only if they are used according to recommendation of vehicle manufacturer and/or Apollo Tires (US) Inc. on the vehicle on which they were originally installed.

This warranty will only apply if all the following qualification requirements are met:

- The tire was purchased after 1st June 2021.
- The tire was purchased from an authorized dealer of Apollo Tires (US) Inc.
- The tire is of a size, has a load rating and speed rating equal to or greater than that recommended by the OE vehicle manufacturer.
- The tire has not become unserviceable due to a condition listed under what is not covered.

In case any Apollo tire covered by this limited warranty should become unserviceable due to a manufacturing related condition during its usable tread life of more than 2/32nds of an inch (1.6 mm) remaining tread, and within six (6) years from date of tire manufacture, Apollo Tires (US) Inc. will give a credit on the following conditions:

CATEGORY	TIME PERIOD	POLICY
TBR Tires	During the first 2/32nds of the original usable tread and one year from date of purchase.	Tire will be replaced with a comparable new Apollo tire on a free of charge basis. Applicable taxes on the new tire and the cost of mounting, balancing and any other charges in connection with the replacement of the tire shall be paid by the owner/end user.
	After the first 2/32nds of the original usable tread or after one year from date of purchase, whichever occurs first.	The credit amount will be determined by multiplying the pre-determined adjustment price* for the tire (excluding taxes) by the percentage of original tread depth remaining on the tire or casing value whichever is higher.

** Adjustment consideration is calculated using the price of tire at the time of purchase, if that is not available it will be calculated using the current Apollo price in effect at the time of adjustment consideration.*

WHAT IS NOT COVERED UNDER THIS POLICY

This limited warranty does not apply to tires which have been subjected to any of the following operational conditions:

- Irregular wear or tear or tire damage due to:
  1. Accidental damage such as road hazard injury (including punctures, cuts, bulge, snags, impact breaks, stone drilling, concussion, etc.).
  2. Wreck, collision, fire, chemical corrosion, contamination, tire alteration and/or vandalism.
  3. Natural causes like striking of lightning.
  4. Runflat, casing dis-integration, rupture due to fatigue, overloading, dual touching, rim damage, burnt bead, stone trapping, repair patch damage, spinning, wrong application to fit, misuse, negligence, racing, chain damage, improper mounting-demounting, tire/wheel imbalance, improper retread, improper regrooving, under inflation, installation of incorrect tire or rim size, incorrect repair, vehicle faults, abuse, or abuse.

5. Any tire that has been operated whilst using internal balancing additives, as well as tires that have been reinflated in conjunction with the addition of liquid tire sealant repair materials.
6. Fast Rapid wear, uneven/irregular wear due to mechanical irregularities or faulty alignment of vehicle or due to improper inflation pressure maintenance or improper twinning. No mileage or treadwear warranty is expressed or implied.

- Use outside of the United States.
- Ozone or weather checking/cracking on tires that are more than four (4) years old from the date of manufacture.
- Ride disturbance after 2/32nds tread wear or one (1) year from date of purchase, whichever occurs first.
- Having less than 2/32nds remaining tread depth.
- Tires with the individual serial number cut out or buffed.
- Tires six (6) years or older from the date of manufacture or six (6) years or older from the date of purchase, whichever occurs first.
- Any addition of material to a tire after it leaves the factory (e.g., tire fillers, sealants or balancing substance).
- Tires that are put in service and that are not in full accordance with the intended use of the vehicle and the recommendations of the vehicle manufacturer.

This warranty policy does not provide compensation for loss of time, loss of use of vehicle, income or operation, inconvenience or any incidental or consequential damages.

HOW TO OBTAIN WARRANTY

In order to be eligible for this limited warranty program, the owner must observe the following:

- Present the tire to an authorized Apollo tire dealer in the United States.
- Submit a copy of the original purchase rECEipt. If no proof of purchase is available, coverage will be based on the date of manufacture noted in the DOT number molded on the sidewall.
- Complete and sign an Apollo Tires (US) Inc. claim form available at any authorized Apollo tire dealer.
- Pay the cost of mounting, balancing, any other service charges, and applicable taxes.
- Tires pertaining to which a complaint under this policy is approved become the property of Apollo Tires (US) Inc.

If the tire owner abuses the tire including but not limited to observe safety warnings, maintain proper tire inflation pressure, maintain vehicle alignment and tire rotation, expected tire performance or life may not be achieved and your safety cannot be ensured.

CASING WARRANTY

- A casing of a Apollo Truck & Bus Radial tire is warranted when the tire becomes unserviceable or non-retreadable due to any manufacturing related issues, Apollo Tires (US) Inc. will provide a predetermined casing allowance.
- Casing warranty is valid through the 2nd retreaded life for six (6) years from the date of manufacture.
- Tires used in mining and logging service are not covered under this warranty.
- Casing & retreading allowance shall be as per the following section.

CASING ALLOWANCE

Casing allowance covers all sizes, patterns, and load ranges.

	ORIGINAL TREAD	1ST RETREAD	2ND RETREAD
17.5"	$70	$50	$30
19.5"	$80	$60	$40
22.5" / 24.5"	$120	$100	$75

RETREAD TIRE ALLOWANCE

Total Allowance Retreaded Tires.
(Remaining Tread Depth) (Retread Allowance + Casing Allowance)

If an Apollo Commercial Truck tire becomes unserviceable during the **First Retread** and is within the the warranty period, in addition to the casing allowance, you will also receive the retread rubber allowance as outlined below:

More than 14/32	$50.00 + Casing Allowance
8/32 to 14/32	$30.00 + Casing Allowance
Less than 8/32	Casing Allowance Only

- For 19.5 inches or smaller sizes, only casing allowances are warranted.
- Tires used in mining and logging service are not covered under this warranty.

DISCLAIMER

This warranty, or any warranty is exclusive and in lieu of any other warranty related to the quality and performance of Apollo tires, whether expressed or implied and remedies for breach thereof shall be limited to those specifically provided herein. Any warranty of merchantability of fitness for any particular purpose, if made, is limited in duration to the effective time period of this limited warranty.

IMPORTANT SAFETY INFORMATION

Any tire, regardless of how well it is designed or manufactured, may fail prematurely as a result of punctures, impact related damage, improper inflation pressure, overloading, or any other operationally induced conditions than could be related to abuse. Tire failure could result in a risk of property damage or possibly serious personal injury, and even death.

SAFETY WARNING

Serious personal injury or death may possibly result from a tire failure. Tire failures are in many cases prECEded by vibration, sidewall bulges, or irregular wear. If a vibration is felt while driving your vehicle or you observe a sidewall bulge or irregular tread wear pattern, immediately take the affected tire to your nearest qualified tire professional for a complete technical evaluation and report.

TIRE INFLATION

The U.S. Department of Transportation stipulates that a pre-trip vehicle inspection shall be done. Pre-trip vehicle inspections should include cold-tire inflation pressure checks. Remember to check the inflation pressure of inside fitted dual tires. Make sure that the correct valve extensions and brackets are fitted to your tire & rim assembly.

The only correct method for checking tire inflation pressure is by making use of an accurate tire inflation pressure gauge. Kicking or prodding a tire will only indicate to you that a tire is completely flat.

Check inflation pressure on “Cold” tires. Tires are considered as “Cold” if the vehicle has been parked up for three hours or more in a shaded area, or if the vehicle has been driven for less than one mile, and this at a moderate speed.

Never release pressure from a hot tire in order to reach the recommended cold tire inflation pressure. Normal driving causes tires to run hotter, therefore increasing your tires inflation pressure. If you reduce inflation pressure when your tires are hot, you will run the risk of operating your tires in an under-inflated state.

Should it be required to adjust inflation pressure when your tires are hot, adjust their inflation pressure to 10 psi (69 kPa) above the recommended cold inflation pressure. Make sure to recheck the inflation pressure when the tires are cold.

A pressure difference of 5 psi (35 kPa) or more between dual fitted tires is not recommended.

Use the correct type of valve caps in order to keep the valve core clear of dust/debris.

SAFETY WARNING

Inflating an unsecured tire is extremely dangerous. If it were to explode, it could be hurled into the air with a massive explosive force. If struck by this tire and/or rim assembly, it could result in serious personal injury or death.

- **NEVER** adjust the inflation pressure of a tire unless it is placed in a tire safety cage, secured to a vehicle, or fixed to a tire mounting machine.
- **NEVER** stand or lean over the tire or front of the valve while inflation adjustment is taking place.
- **NEVER** re-inflate a truck tire that has been operated continuously and for an extended period of time at a very low inflation pressure (i.e. 80% or less of the normal operating pressure) without first having carried out a complete inspection of the entire tire. This should be done by a certified tire service professional.

TIRE INFLATION PRESSURE

All tires are required to have the specified inflation pressure that will allow them to operate effectively and perform as intended. A tire offers support to the vehicle and its passengers/loads, while transmitting the braking, acceleration and turning forces. Vehicle manufacturers will recommend the inflation pressures for the tires mounted on your vehicle.

SAFETY WARNING

Operating a tire in an under-inflated / improper inflation pressure condition is dangerous.

- Under-inflation will result in excessive tire heat build-up, which when used over an extended period of time, will result in structural damage.
- Over-inflation will result in the tire been more susceptible to cuts, punctures, and impact/road hazard related breaks.

The above-mentioned conditions can cause a tire to fail, which could possibly lead to serious personal injury or death. For the specified tire operating inflation pressure, please consult your vehicle tire information placard / owner's manual.

In addition to the damage caused to the tire, incorrect inflation pressure could also lead to the following:

- Irregular/rapid/reduced tire wear.
- Affect fuel economy.
- Adversely affect vehicle ride & handling.

TIRE REPAIRS

SAFETY WARNING

Driving on an incorrectly/poorly repaired tire is dangerous. An incorrect/poor repair can be unreliable or can result in further damage been caused to the tire. Sudden and/or dramatic tire failure could occur, resulting in serious personal injury or death. A detailed inspection and subsequent repair of your tire that is carried out in accordance to the Rubber Manufacturers Association (RMA) procedures should only be conducted by a qualified tire service professional.

TIRE DEMOUNTING & MOUNTING

THIS POLICY IS NOT INTENDED TO PROVIDE PROPER TRAINING OR SERVICE PROCEDURES FOR TIRE MOUNTING, DEMOUNTING, BALANCING, ROTATION, OR REPAIR. THESE TASKS SHOULD ONLY AND ALWAYS BE PERFORMED BY QUALIFIED TIRE SERVICE PROFESSIONALS.

Only specially trained persons should mount tires. For specified tire mounting procedures, consult the requirements in accordance to the Occupational Safety and Health Administration (OSHA).

TRUCK TIRE HOT BRANDING

The following limits are recommended when branding Apollo Truck & Bus Radial tires using a hand held branding tool.

BRANDING TOOL TEMPERATURE	MAXIMUM DEPTH
480 Deg F (250 Deg C)	1/32 inch (0.8mm)
570 Deg F (300 Deg C)	1/64 inch (0.4mm)

ONLY brand in the designated "BRAND TIRE HERE" area.

SAFETY WARNING

Mounting and demounting of tire and/or rim assemblies can be dangerous. Attempting to demount or mount tires using the incorrect equipment or procedures may result in a tire explosion causing serious personal injury or death. This is a job for a qualified tire service professional only. Never carry out tire service procedures without the correct signed off training, and equipment.

Inflating an unsecured tire is dangerous. If the tire were to explode, it could be hurled into the air with explosive force resulting in serious personal injury or death.

- **ALWAYS** stand well clear of any tire mounting operation. This is particularly important when the operator inflates the tire.
- When inflating a tire after mounting it onto a rim, **ALWAYS** use a tire safety cage and an extension air-hose fitted with an accurate pressure gauge and clip-on connecter.
- **NEVER** adjust the inflation pressure of a truck tire unless it is placed in a safety cage or is secured to the vehicle or a tire mounting equipment.
- **NEVER** stand or lean over the tire or in front of the valve when inflating.

TIRE MIS-MATCHING

SAFETY WARNING

Operating your vehicle with the incorrect combination of tires is dangerous. Your vehicle's handling characteristics could be adversely affected which could result in an accident and/or serious personal injury or death. Consult your vehicle owner's manual and a qualified tire service professional for the correctly specified tire.

DUAL TIRE MATCHING

Tires paired as a dual assembly should be matched up by tire construction and dimension. For truck radial tires, correctly paired dimension tolerances are as follows:

- Diameter: within 1/4 inch (6.4 mm) of each other.
- Circumference: within 3/4 inch (19 mm) of each other.

SAFETY WARNING

Improperly matched tires may result in irregular wear, rapid wear, and ultimately premature tire removal or failure. Failure to match tires in a dual assembly could when operated over an extended period of time also result in sudden/catastrophic tire failure.

HIGH SPEED DRIVING

Driving at high speeds, even with the correct inflation pressure can lead to a loss of a vehicle control, regardless of the speed and handling capabilities of the vehicle. For example, high speed driving is especially dangerous because a road hazard is more difficult to avoid at a high speed, and if impacted, has a greater chance of causing tire damage than at lower speeds. Please refer to the specified load and speed index as indicated on the tire sidewall.

SAFETY WARNING

Driving at high speed is dangerous and can cause a vehicle accident, including serious personal injury or death.

TIRE STORAGE

When tires sit outdoors, unused for long periods of time, their surfaces become dry and more susceptible to ozone and weather checking/cracking, which can lead to serious problems to the inner liner and casing plies. Thus, tires should always be stored in a cool, dry place where water cannot collect inside them. Tires should be stored away from sources of heat and in a clean environment free from grease, petroleum, gasoline, and other substances that can deteriorate the rubber.

SAFETY WARNING

Improper storage can damage your tires in ways that may not be visible that can result in premature aging of the tires and lead to sudden tire failure.

ADDITIONAL SAFETY WARNING

Tire failure due to under inflation/overloading or misapplication is dangerous and may result in serious injury – follow owner's manual or the tire placard in vehicle. It is recommended to frequently check inflation pressure with an accurate gauge. Only specially trained person should mount tires – when mounting, use safety cage and clip on extension air hose to inflate.

Federal Motor Carrier Safety Regulations, 49 C.F.R. § 393.75(d), specify that:

- No motor vehicle shall be operated on any tire that—
  1. Has body ply or belt material exposed through the tread or sidewall,
  2. Has any tread or sidewall separation,
  3. Is flat or has an audible leak, or
  4. Has a cut to the extent that the ply or belt material is exposed.
- Any tire on the front wheels of a bus, truck, or truck tractor shall have a tread groove pattern depth of at least 4⁄32 of an inch when measured at any point on a major tread groove. All other tires shall have a tread groove pattern depth of at least 2⁄32 of an inch when measured in a major tread groove. The measurements shall not be made where tie bars, humps, or fillets are located.
- No bus shall be operated with regrooved, recapped or retreaded tires on the front wheels.
- A regrooved tire with a load-carrying capacity equal to or greater than 2.232 kg (4.920 pounds) shall not be used on the front wheels of any truck or truck tractor.
- No motor vehicle may be operated with speed-restricted tires labelled with a maximum speed of 55 mph or less in accordance with S6.5(e) of FMVSS No. 119 at speeds that exceed the rated limit of the tire.

ADDITIONAL INFORMATION OR CUSTOMER SERVICE

If you have any question on product warranty, please first contact your nearest Apollo tire dealer. For dealer information, or if your question has not been handled to your satisfaction, you may contact Apollo Tires (US) Inc.

APOLLO TIRES (US) INC.
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Atlanta, GA 30361, USA
contact.us@apollotyres.com
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CAUTION

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