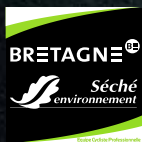


challenge

H A N D M A D E T I R E S



Track

Time Trial / Triathlon

Road

Gravel

Cyclocross

MTB

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- Pista 320pg. 10



Guy East (USA)

> TUBULARS

- Record....pg. 11

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- Recordpg. 11



2015 Tour de France Stage 9 TTT Equipe Bretagne S  ch   Environnement

GRAVEL

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► **COMPANY HISTORY**

- 1985** Italian cycling trading company Brewo Italia, owned by **Max Brauns**, begins selling and servicing many Italian cycling component brands, including Clément brand of tires, worldwide.
- 1990** Italian tubular tire brands Vittoria and Clément move to Thailand.
- 1998** The factory supplying Brewo tubular tires in Thailand closes.
- 1999** Max Brauns goes to Thailand to buy and re-construct the tubular factory machinery so that he can continue supplying his valued customers worldwide.
- 2003** After failing to reach a licensing agreement with Pirelli for use of the Clément trademark, Max and his son Alessandro, create their own brand Challenge to produce and sell tubulars and open tubulars.
- 2005** Original molds for the world famous Grifo (Cyclocross), Criterium and Paris-Roubaix (Road), Crono (TT) and Pista (Track) are joined by new, innovative tread designs like Grifo XS (Cyclocross) and Strada (Road). Liberty-Seguros Pro Cycling Team races on Challenge tubulars.
- 2006** Challenge creates an innovative process to produce the world's first **seamless latex inner tube**. Erwin Verweken wins the Cyclocross World Championships on Challenge.
- 2007** Challenge introduces the **Forte** (Road) and **Triathlon** (TT/Triathlon) tires. Erwin Verweken wins the Cyclocross World Championships on Challenge.
- 2008** Challenge introduces the **Fango** cyclocross tire.
- 2009** Challenge focuses on expanding Open Tubular range by releasing Forte, Triathlon and Fango with Open Tubular construction making these elite level clinchers more available.
- 2010** Paris Roubaix Open Tubular introduced. Zdenek Štybar wins the Cyclocross World Championships on Challenge.
- 2011** Challenge introduces the aggressive **Limus** cyclocross tire. RadioShack Pro Cycling Team races on Challenge tires.
- 2012** Challenge creates the first tire specifically for racing on dirt roads, **Strada Bianca**, named after the famous white roads of Tuscany. Challenge also introduces their first MTB tubular, MTB One. Following the passing of company patriarch **Max Brauns**, **Alex Brauns** and his sister, **Simona**, take over the full running of the factory and office.
- 2013** Challenge develops the double Puncture Protection System (PPS2) technology and introduces second Gravel racing tire, Almanzo, named after and licensed by the famous Minnesota 100 mile race. Challenge celebrates the crowning of five U.S. National Champions in five different cycling disciplines in the same year – Road, TT, Cyclocross, Triathlon and Criterium.
- 2014** Challenge introduces the fast rolling **Chicane** cyclocross tire and makes the 320TPI Corespun Cotton casing **Team Edition** Grifo and Limus tires available to the public.
- 2015** Challenge adds the **Chicane** and all new **Baby Limus** “Sticky mud” tire to the Team Edition racing range, three new 25mm tires to the Road range and the **Gravel Grinder** to the Gravel Range.

► **PRODUCTS**

Challenge produces performance tubular and open tubular tires by hand in the Challenge Tech factory in Thailand, combining supple natural-rubber treads, the highest-quality Silk, Cotton and Polyester casings and the world's first seamless Latex inner tube. Producing tires of this quality requires a unique artisan production process that uses advanced materials and technology, while referring to craftsmanship developed over the past 100 years.

Non-vulcanized natural rubber treads provide the best traction and braking and the most secure cornering available. Silk casings provide the highest ride quality, thanks to an unmeasurably high thread count. The fine, tightly woven Silk filaments produce a thin, pliable, extremely strong fabric. Corespun Cotton casings are the favorites of world-class athletes because they are light and supple with thread counts up to 320TPI for maximum comfort, control and performance. SuperPoly and Polyester casings are less expensive and more durable, while still offering the performance features of a top-end tubular.

▶ **HANDMADE PRODUCTION**

Every Challenge tubular and open tubular is produced by hand. This handmade process minimizes the use of heat treatments and specifically avoids the industry-standard extreme heat treatment called vulcanization. By resisting these common practices, Challenge is able to provide the ultimate quality standard in high-performance products.

Our handmade production allows our treads, casings and inner tubes to maintain their original suppleness and flexibility, achieving the best grip for controlled cornering, rapid accelerations and flat-out speed. A supple Challenge tire is able to absorb and reduce harmful vibrations passing from the road to the body, normally produced by riding stiffer vulcanized tires, ultimately reducing muscle stiffness, inflammation and fatigue.



▶ **PPS Puncture Protection Strip**

The Puncture Protection Strip is a special aramid fabric placed between a tire's tread and casing to increase resistance to punctures. Some tires designed for use on rough roads, cobbles and gravel receive PPS2, an additional layer of PPS between the casing and the inner tube.



▶ **SEAMLESS LATEX INNER TUBE**

Challenge sources high-grade natural Latex to produce the only seamless Latex inner tube on the market. Due to the lack of seams, these tubes have no bumps or added weight that commonly cause a tire to feel out of round. This also improves the overall strength of the tubes as seams are commonly the weak point on an inner tube.

Latex inner tubes are also very elastic, allowing them to initially wrap around a foreign object, rather than immediately puncturing.

Warning: because of its elasticity, installation of a Latex tube requires the skills of an experienced hand. Latex tubes can be more prone to pinch flats if not installed properly.



▶ **SILK Best of the Best**

Silk, like Cotton, is a natural fiber. While Cotton has the advantage of being less expensive, it unfortunately tends to absorb moisture and degrades if not properly cared for. Silk does not absorb water, has finer threads and can be woven at such a high thread count that it is almost impossible to count. Silk casings are more supple and provide lower rolling resistance, as well as being more resistant to cuts and more durable than Cotton. Challenge offers Silk casing for track, road and cyclocross tires.

Silk is unfortunately very expensive and top-quality grades of Silk are not easily sourced. This is why Challenge uses Silk in only the highest-performance tires for the most demanding cyclists in the most important events. It is not a surprise that Silk is mostly used for the highest speeds on the track.

► TPI (Threads Per Inch)

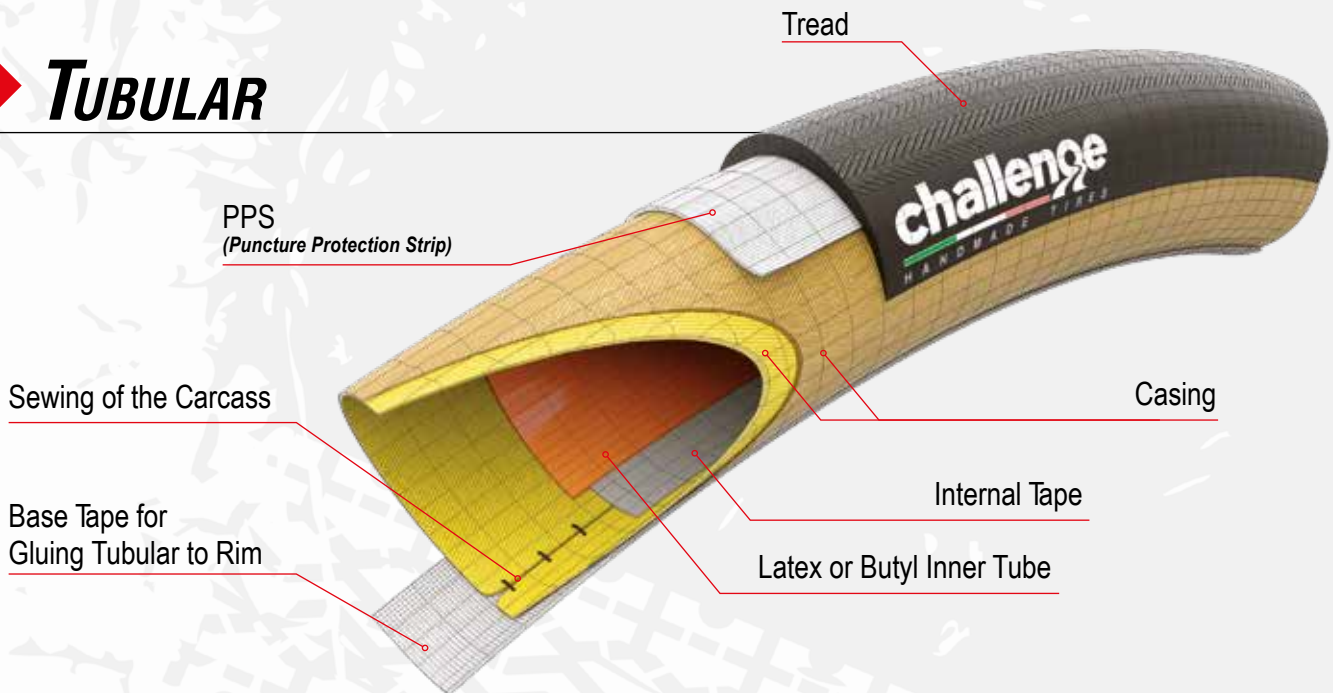
The density of the casing fabric is expressed in TPI (Threads Per Inch). The TPI is traditionally used as a parameter to determine the quality of a tire. In principle, the higher the thread count, the better the quality of the tire.

Larger threads weigh more and require large amounts of adhesive to bind them together when producing the casing fabric. This results in a heavier, stiffer fabric which translates into a slower tire. Challenge's casings are more refined, weaving much thinner materials such as Polyester, Cotton and Silk, into higher density, finer quality casings. Challenge is one of the very few manufacturers capable of offering casings with thread counts above 220TPI. Compared to lower thread count nylon fabrics, a finely woven Polyester, Cotton or Silk fabric will weigh less while providing casings that are more

supple and that better hug the ground. This improves comfort and handling while reducing rolling resistance. Challenge's handmade tires are available in SuperPoly, Corespun Cotton or Silk. SuperPoly casings are the least delicate and range from 220 to 300TPI. Corespun Cotton casings start at 320TPI and provide a lighter, more supple tire. Our lightest casings are made from Silk with a thread volume too high to count.

Warning: Some manufacturers falsely market tires with high thread counts by counting each layer of casing when formulating the number. For instance, some brands boast a 330TPI casing when that casing is really three layers of 110TPI nylon. This results in a heavier, stiffer, and slower tire than a Challenge model with 320TPI per layer.

► TUBULAR

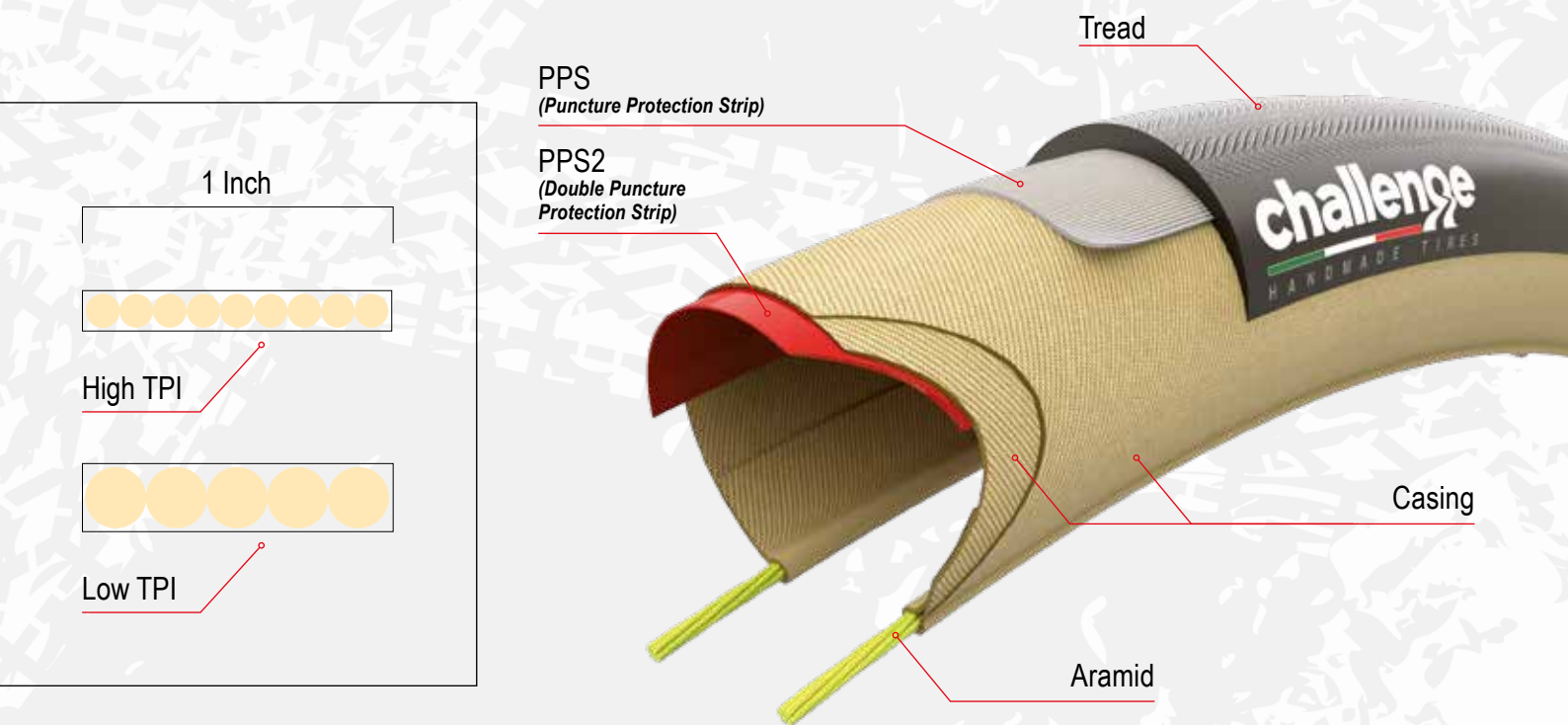


The highest performance tubulars begin with Challenge's high thread count casings. These are sewn into a carcass with a seamless Latex inner tube inside. This structure is then mounted on tubular rims and inflated. Skilled craftsmen hand-glue natural (non-petroleum based) rubber treads onto the inflated carcass. This process allows the tread to take the shape of the inflated tire, preventing tension between the tread and carcass and retaining ideal flexibility.

The combination of this process with high thread-count casings and Latex tubes results in tires with lower rolling

resistance and increased comfort offering a safer and more precise handling of the bike. These tires absorb irregularities in the road surface with their subtle give and slight deformation, increasing surface contact and guaranteeing both shock absorption and great grip while cornering.

During this process, tubulars receive base tape, applied over the stitches to protect them from the glue used to attach these tires to tubular rims and some have a PPS (Puncture Protection Strip) between the treads and the casing in order to increase puncture resistance.



► OPEN TUBULAR

An open tubular is constructed using the same casing and tread materials and process as a tubular, but instead of sewing the casing together (closed), the sides of the tubular casing are folded around aramid fiber cords to produce beads. This 'open' design performs like a tubular, yet conveniently mounts like a standard clincher tire. If combined with a Latex inner tube the ride becomes even closer to that of a tubular, offering excellent traction and cornering, low rolling resistance and shock absorption.

CHALLENGE OPEN TUBULAR VS. TRADITIONAL CLINCHER

OPEN TUBULAR	TRADITIONAL CLINCHER
Top quality, high-TPI casing materials and natural rubbers	Low-TPI casing materials that use thicker threads and bulkier rubber
Handmade construction provides a laterally flat tire that requires a tube and rim to take round shape	Vulcanized construction provides a rigid, pre-formed U-shaped tire
The highly supple tires translate more energy into forward progress	Absorbs energy in the stiff rubber, which is resistant to deforming, shock passes thru wheel & frame to rider
Conforms easily to the terrain, absorbing and softly rolling over road imperfections and transmitting less shock to the rider	Stiffer so it bounces when rolling over imperfections in the terrain and provides a harder feel that passes more road shock up to the rider
The softer natural rubber tread will grip road imperfections resulting in controlled cornering in wet or dry conditions	The stiffer rubber tends to corner poorly, as it bounces more and does not grip imperfections in the road
Softer, natural rubbers tend to wear faster than stiffer, vulcanized rubber	Vulcanized rubber is more durable providing longer tread life

▶ **HANDMADE PRODUCTION**



Our Factory



Raw Materials



Looms



Cutting Casing



Applying Beads to Open Tubular



Tubulars Aging After Final Cure & Talc



Latex Tube inflated to 20 cm x 6m



Machine Sewing Tubular



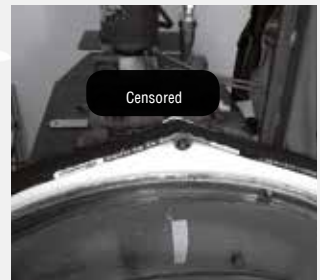
Hand Sewing Tubular



Compounding Tread Rubber



Compounded Treads



Applying Treads



Aging Open Tubulars



Aging Inflated Tubulars



Tubulars Inflated for QC



Tire Durability Test 80kg @ 40 kph

▶ **TECHNICAL SPECIFICATIONS**

Series		Construction			Use
Name	Description	Production	Casing	TPI	
Ultra	Ultra	Handmade	Silk	1000+	Professional Racing to World Championships
SC	Servizio Corse	Handmade	Corespun Cotton	320+	Professional Racing to World Championships
TE	Team Edition	Handmade	Corespun Cotton	320+	Professional Racing to World Championships
Pro	Professional	Handmade	SuperPoly & Poly	220-300	Club Racing to National Championships
Race	Race	Vulcanized	Nylon Foldable	120-180	Training to Club Racing
Plus	Plus	Vulcanized	Nylon Foldable	60	Training
Comp	Competition	Vulcanized	Nylon Wire	30	Training - OE Only

▶ **CRITICAL REQUIREMENTS**



ETRTO TIRE AND RIM COMPATIBILITY CHART *European Tire and Rim Technical Organization Standards Manual*

Rim Width mm	Tire Section Width															
	18 mm	20 mm	23 mm	25 mm	28 mm	32 mm	35 mm	37 mm	40 mm	44 mm	47 mm	50 mm	54 mm	57 mm	60 mm	62 mm
13c	X	X	X	X												
15c			X	X	X	X										
17c				X	X	X	X	X	X	X	X	X				
19c					X	X	X	X	X	X	X	X				
21c							X	X	X	X	X	X	X	X	X	X
23c								X	X	X	X	X	X	X	X	X
25c										X	X	X	X	X	X	X
27c											X	X	X	X	X	X
29c													X	X	X	X

▲ **WARNING**

Tire and Rim Compatibility

Tire manufacturers, including Challenge, recognize that new clincher rim designs are being introduced, or modified, to accommodate carbon fiber hook beads, wider profiles and tubeless technologies that may not respect internationally accepted standards. Challenge open tubular and vulcanized clincher tires are designed to meet ETRTO (European Tire and Rim Technical Organization) standards for both clincher hook bead shapes and the tire/rim size compatibility as listed in the chart above. Use of Challenge tires on rims that do not meet these standards, as well as use without a tube, could result in severe injury and is solely the responsibility of the assembling party.

Challenge open tubular and vulcanized clincher tires display sizes on the sidewall that are based on ETRTO standards describing the tire width (mm) x tire rim diameter (mm). They also include a "C" for Crotchet (meaning hook in English). Therefore, a tire like the Strada, will include the size 25c-622 which means the tire is 25mm wide and is intended for a 622 bead seat diameter rim with hook bead edges.

ATTENTION!

Tire Pressure

Tire pressure directly influences the comfort, handling, durability and rolling resistance of a bicycle. For example testing has proven that a properly designed and inflated tire provides 20 times more compliance (shock absorption) than a carbon fiber frame, fork and wheel set combined. This tire shock absorption is critical to a safe, enjoyable ride over any distance.

A tire can only operate to its full potential when properly inflated. Each Challenge tire includes a air pressure range. If the air pressure is too low, the risk of punctures, loss of traction and wear increases. A tire that is inflated too high stiffens the ride which adversely affects traction, cornering grip and rolling resistance. Always inflate and maintain tire pressures in the specified range. Please see the Challenge website www.challenge.tech.it for more specific pressure recommendations based on rider weight, terrain and conditions.

All bicycle tires continually lose pressure and top-level handmade tires may lose air pressure faster than vulcanized clinchers due to the soft supple materials used in their construction being more permeable. For this reason you should check and adjust your tire pressure before each ride.

ATTENTION!

Weight

Challenge's goal is to provide light, durable tires. Occasionally there are small deviations from the weight listed in our catalog. These variations result from tolerances in the tread thickness and other rubberized material that cannot be avoided in the handwork of the manufacturing process. The weight information in the catalog is based on the target weights that were determined in pre-production and during repeated measurements made during production. Deviations of up to 10% of the target weights are possible according to our design tolerances.

TRACK



GuyEast (USA)

Tubulars

PISTA



Series	ULTRA	SC
TPI	1000+	320
CASING	Silk	Corespun Cotton
SIZE	28"	28"
WIDTH	22mm	22mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
WEIGHT	185g	195g
USE	Track racing	Track Racing

Tread Casing



Black | Cream



Black | White

ULTRA

SC

Open Tubulars

PISTA 320



Series	SC
TPI	320
CASING	Corespun Cotton
SIZE	700
WIDTH	23mm
CONSTRUCTION	Handmade
BEAD	Aramid
WEIGHT	170g
USE	Track racing

Tread Casing



Black | White

TIME TRIAL / TRIATHLON



Tubulars

Open Tubulars

2015 Tour de France Stage 9 TTT Equipe Bretagne S  ch   Environnement

Tubulars

RECORD



HAND
MADE



Series	PRO	PRO
TPI	300	300
CASING	SuperPoly	SuperPoly
SIZE	28"	28"
WIDTH	22mm	24mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
PPS	PPS2	PPS2
WEIGHT	260	265
USE	TT / Triathlon	TT / Triathlon

Tread Casing



Black | Black

Open Tubulars

RECORD



HAND
MADE



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	700
WIDTH	23mm
CONSTRUCTION	Handmade
PPS	PPS2
BEAD	Aramid
WEIGHT	215g
USE	TT / Triathlon

Tread Casing



Black | Black

ROAD

Tubulars

Open Tubulars

Clinchers



2015 Tour de France, Stage 17, Brice Fellenx

Tubulars

CRITERIUM SETA



Series	ULTRA	ULTRA
TPI	1000+	1000+
CASING	Silk	Silk
SIZE	28"	28"
WIDTH	23mm	25mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
PPS	PPS	PPS
WEIGHT	260g	270g
USE	Road racing	Road racing

Tread Casing



Black | Cream

Tubulars

CRITERIUM



Series	SC	SC
TPI	320	320
CASING	Corespun Cotton	Corespun Cotton
SIZE	28"	28"
WIDTH	23mm	25mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
PPS	PPS	PPS
WEIGHT	260g	270g
USE	Road racing	Road racing

Tread Casing



Black | White



Black | Black

Tubulars

FORTE



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	28"
WIDTH	24mm
CONSTRUCTION	Handmade
INNER TUBE	Latex
PPS	PPS
WEIGHT	275g
USE	Road racing / Big rider / Rough roads

Tread Casing



Black | Black

ROAD

Tubulars

STRADA



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	28"
WIDTH	25mm
CONSTRUCTION	Handmade
INNER TUBE	Latex
PPS	PPS
WEIGHT	285g
USE	Road racing / Big rider / Rough roads

Tread Casing



Black | Tan



Black | Black

Tubulars

PARIS-ROUBAIX



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	28"
WIDTH	27mm
CONSTRUCTION	Handmade
INNER TUBE	Latex
PPS	PPS2
WEIGHT	330g
USE	Road / Cobble / Gravel racing

Tread Casing



Black | Tan



Black | Black

Tubulars

MIRAGE



Series	PRO
TPI	260
CASING	SuperPoly
SIZE	28"
WIDTH	24mm
CONSTRUCTION	Handmade
INNER TUBE	Butyl
PPS	PPS2
WEIGHT	280g
USE	Road training / Racing

Tread Casing




Black | Black

Tubulars **VULCANO** 




Series	PRO	PRO
TPI	220	220
CASING	Poly	Poly
SIZE	28"	28"
WIDTH	23mm	25mm
CONSTRUCTION	Semi-Vulcanized	Semi-Vulcanized
PPS	Butyl	Butyl
BEAD	PPS	PPS
WEIGHT	295g	315g
USE	Road training	Road training

Tread Casing



Black | Tan




Black | Black

Open Tubulars **CRITERIUM**  




Series	SC	SC
TPI	320	320
CASING	Corespun Cotton	Corespun Cotton
SIZE	700	700
WIDTH	23mm	25mm
CONSTRUCTION	Handmade	Handmade
PPS	PPS	PPS
BEAD	Aramid	Aramid
WEIGHT	205g	215g
USE	Road racing	Road racing

Tread Casing



Black | White




Black | Black

Open Tubulars **STRADA**  




Series	PRO
TPI	300
CASING	SuperPoly
SIZE	700
WIDTH	25mm
CONSTRUCTION	Handmade
PPS	PPS
BEAD	Aramid
WEIGHT	240g
USE	Road racing / Big rider / Rough roads

Tread Casing



Black | Tan



Black | Black

ROAD

Open Tubulars

PARIS-ROUBAIX



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	700
WIDTH	27mm
CONSTRUCTION	Handmade
PPS	PPS2
BEAD	Aramid
WEIGHT	285g
USE	Road / Cobble / Gravel racing

Tread Casing



Black | Tan



Black | Black

Open Tubulars

ELITE



Series	PRO	PRO
TPI	260	260
CASING	SuperPoly	SuperPoly
SIZE	700	700
WIDTH	23mm	25mm
CONSTRUCTION	Handmade	Handmade
PPS	PPS	PPS
BEAD	Aramid	Aramid
WEIGHT	230g	240g
USE	Road training / Racing	Road training / Racing

Tread Casing



Black | Tan



Black | Black

Clinchers

FORTE



Series	RACE	PLUS
TPI	120	60
CASING	Nylon	Nylon
SIZE	700	700
WIDTH	23/25mm	23/25mm
CONSTRUCTION	Vulcanized	Vulcanized
PPS	PPS	-
BEAD	Aramid	Aramid
WEIGHT	195/205g	220/230g
USE	Road training	Road training

Tread Casing



Black

Clinchers

PARIS-ROUBAIX



Series	RACE	PLUS
TPI	120	60
CASING	Nylon	Nylon
SIZE	700	700
WIDTH	27mm	27mm
CONSTRUCTION	Vulcanized	Vulcanized
PPS	PPS	-
BEAD	Aramid	Aramid
WEIGHT	215g	240g
USE	Road / Cobble / Gravel racing	

Tread Casing



Black



Tubulars

Open Tubulars

Clinchers

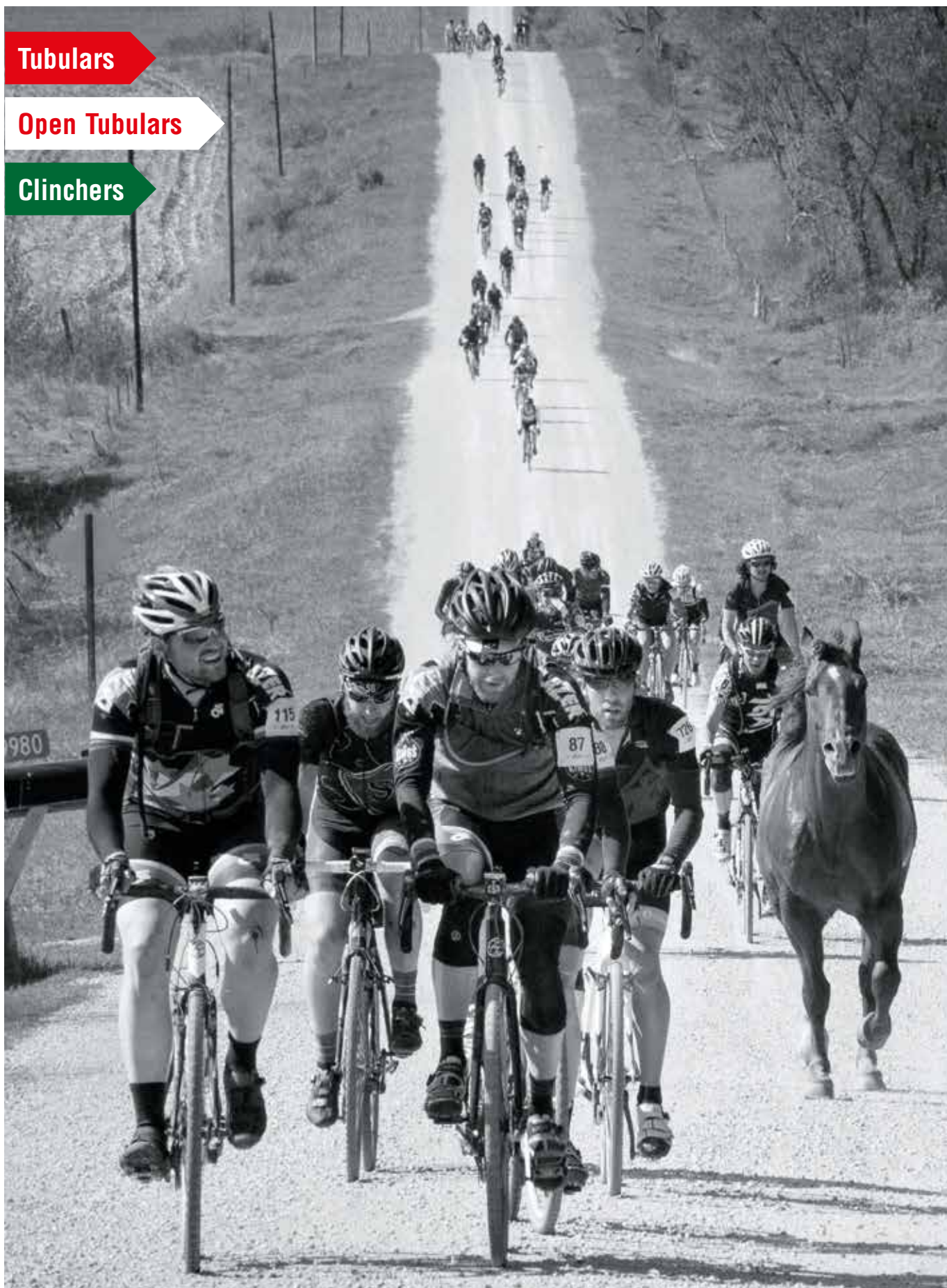
2015 Tour de France, Stage 14, Périchon Most Aggressive Rider

GRAVEL

Tubulars

Open Tubulars

Clinchers



Almanzo 100 Gravel Ride, Spring Valley, MN (USA)

Tubulars

STRADA BIANCA



Series	PRO
TPI	260
CASING	SuperPoly
SIZE	28"
WIDTH	30mm
CONSTRUCTION	Handmade
INNER TUBE	Latex
PPS	PPS2
WEIGHT	380g
USE	Rough Road, Big Riders, Hard Pack Dirt

Tread Casing



Black | Tan



Black | Black

Tubulars

ALMANZO



Series	PRO
TPI	260
CASING	SuperPoly
SIZE	28"
WIDTH	33mm
CONSTRUCTION	Handmade
INNER TUBE	Latex
PPS	PPS2
WEIGHT	390g
USE	Hard Packed Dirt, Light Gravel

Tread Casing



Black | Tan



Black | Black

Open Tubulars

STRADA BIANCA



Series	PRO
TPI	260
CASING	SuperPoly
SIZE	700
WIDTH	30mm
CONSTRUCTION	Handmade
PPS	PPS2
BEAD	Aramid
WEIGHT	355g
USE	Rough Road, Big Riders, Hard Pack Dirt

Tread Casing



Black | Tan



Black | Black

GRAVEL

Open Tubulars

ALMANZO



Series	PRO
TPI	260
CASING	SuperPoly
SIZE	700
WIDTH	33mm
CONSTRUCTION	Handmade
PPS	PPS2
BEAD	Aramid
WEIGHT	385g
USE	Rough Road, Big Riders, Hard Pack Dirt

Tread Casing



Black | Tan



Black | Black

Open Tubulars

GRAVEL GRINDER



Series	PRO
TPI	260
CASING	SuperPoly
SIZE	700
WIDTH	36mm
CONSTRUCTION	Handmade
PPS	PPS2
BEAD	Aramid
WEIGHT	385g
USE	All Around, Big Gravel, Big Rider

Tread Casing



Black | Tan



Black | Black

Clinchers

STRADA BIANCA



Series	RACE	PLUS
TPI	120	60
CASING	Nylon	Nylon
SIZE	700	700
WIDTH	33mm	33mm
CONSTRUCTION	Vulcanized	Vulcanized
PPS	PPS	PPS
BEAD	Aramid	Aramid
WEIGHT	355g	365g
USE	Rough Road, Big Riders, Hard Pack Dirt	

Tread Casing



Black

Clinchers

GRAVEL GRINDER



Series	RACE	PLUS
TPI	120	60
CASING	Nylon	Nylon
SIZE	700	700
WIDTH	33/38mm	33/38mm
CONSTRUCTION	Vulcanized	Vulcanized
PPS	PPS	PPS
BEAD	Aramid	Aramid
WEIGHT	365/375g	375/395g
USE	All around gravel	All around gravel

Tread Casing



Black



L'Eroica Gravel Ride Montalcino Tuscany (ITA)

CYCLOCROSS

Tubulars

Open Tubulars

Clinchers



UK National Champion & World Championship Silver Medalist Helen Wyman (UK)

Tubulars

GRIFO SETA



Series	ULTRA
TPI	1000+
CASING	Silk
SIZE	28"
WIDTH	33mm
CONSTRUCTION	Handmade
INNER TUBE	Latex
PPS	PPS
WEIGHT	405g
USE	All around racing

Tread Casing



Black | Cream

Tubulars

GRIFO



Series	TE	PRO
TPI	320	300
CASING	Corespun Cotton	SuperPoly
SIZE	28"	28"
WIDTH	33mm	33mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
PPS	PPS	PPS
WEIGHT	405g	415g
USE	All around racing	All around racing

Tread Casing



Black | White



Black | Tan



White | Black

Tubulars

BABY LIMUS



Series	TE	PRO
TPI	320	300
CASING	Corespun Cotton	SuperPoly
SIZE	28"	28"
WIDTH	33mm	33mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
PPS	PPS	PPS
WEIGHT	395g	395g
USE	All Around and Sticky Mud	

Tread Casing



Black | White



Black | Tan

CYCLOCROSS

Tubulars

LIMUS



Series	TE	PRO
TPI	320	300
CASING	Corespun Cotton	SuperPoly
SIZE	28"	28"
WIDTH	33mm	33mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
PPS	PPS	PPS
WEIGHT	410g	410g
USE	Deep sloppy mud and soft snow	

Tread Casing



TE

Black | White



PRO

Black | Tan

Tubulars

CHICANE



Series	TE	PRO
TPI	320	300
CASING	Corespun Cotton	SuperPoly
SIZE	28"	28"
WIDTH	33mm	33mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
PPS	PPS	PPS
WEIGHT	400g	415g
USE	Dry, grassy, dusty or icy conditions	

Tread Casing



TE

Black | White



PRO

Black | Tan

Open Tubulars

GRIFO



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	700
WIDTH	33mm
CONSTRUCTION	Handmade
PPS	PPS
BEAD	Aramid
WEIGHT	355g
USE	All around soft pack

Tread Casing



Black | Tan



White | Black

Open Tubulars

BABY LIMUS



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	700
WIDTH	33mm
CONSTRUCTION	Handmade
PPS	PPS
BEAD	Aramid
WEIGHT	345g
USE	All Around and Sticky Mud

Tread Casing



Black | Tan

Open Tubulars

LIMUS



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	700
WIDTH	33mm
CONSTRUCTION	Handmade
PPS	PPS
BEAD	Aramid
WEIGHT	365g
USE	Deep sloppy mud and soft snow

Tread Casing



Black | Tan

Open Tubulars

CHICANE



Series	PRO
TPI	300
CASING	SuperPoly
SIZE	700
WIDTH	33mm
CONSTRUCTION	Handmade
PPS	PPS
BEAD	Aramid
WEIGHT	355g
USE	Dry, grassy, dusty or icy conditions

Tread Casing



Black | Tan

CYCLOCROSS

Clinchers

GRIFO



Series	RACE	PLUS
TPI	120	60
CASING	Nylon	Nylon
SIZE	700	700
WIDTH	32mm	32mm
CONSTRUCTION	Vulcanized	Vulcanized
BEAD	Aramid	Aramid
WEIGHT	330g	350g
USE	All around soft pack	All around soft pack

Tread Casing



Black

Clinchers

CHICANE



Series	RACE	PLUS
TPI	120	60
CASING	Nylon	Nylon
SIZE	700	700
WIDTH	33mm	33mm
CONSTRUCTION	Vulcanized	Vulcanized
BEAD	Aramid	Aramid
WEIGHT	330g	350g
USE	Dry, grassy, dusty or icy conditions	

Tread Casing



Black



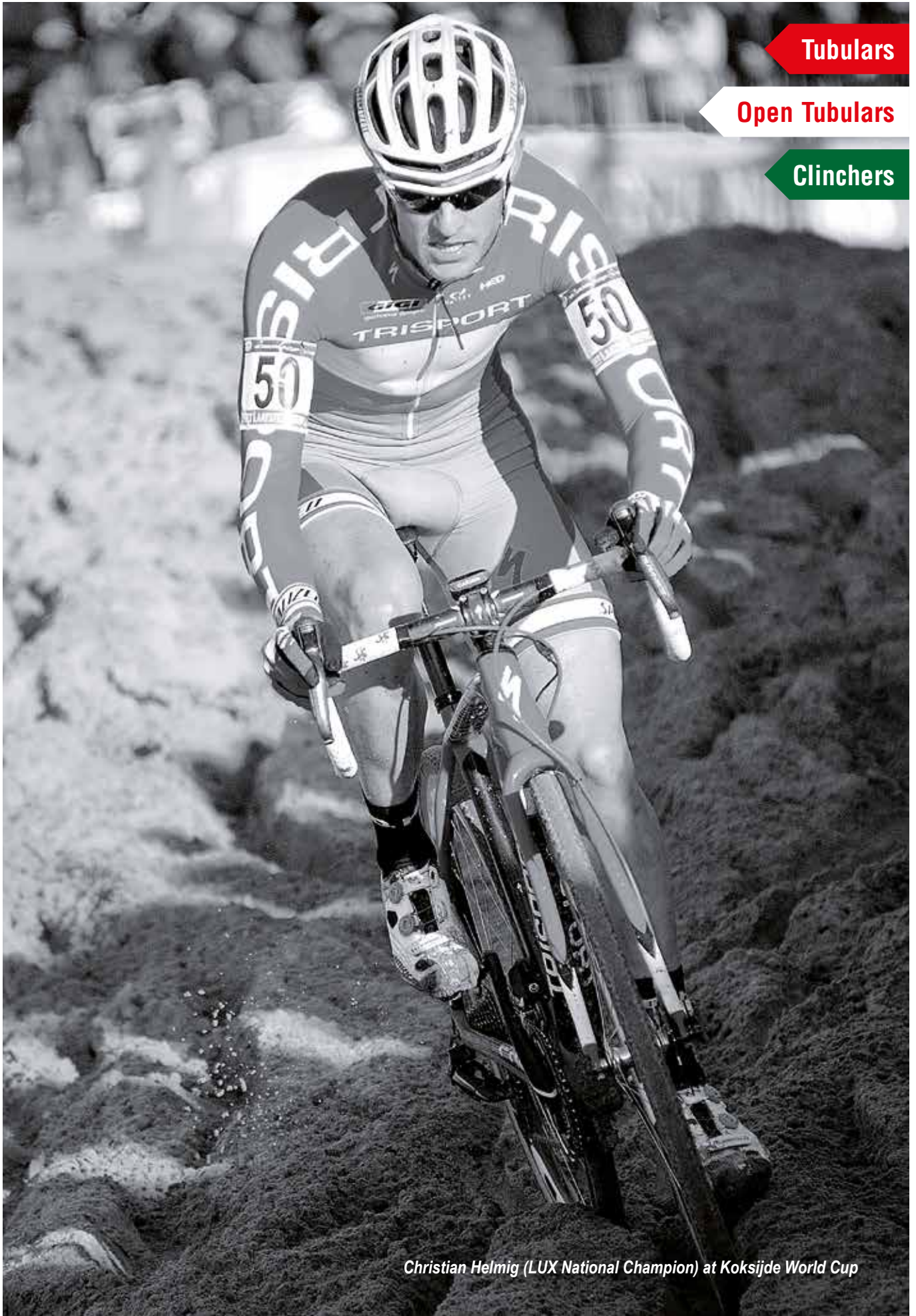
2015 Helen Wyman (UK) at Zonhoven World Cup

CYCLOCROSS

Tubulars

Open Tubulars

Clinchers



Christian Helmig (LUX National Champion) at Koksijde World Cup

MOUNTAIN

Tubulars



Andrea Tiberi (IT) FRM Factory Racing Team

Tubulars

MTB ONE



Series	PRO	PRO
TPI	300	300
CASING	SuperPoly	SuperPoly
SIZE	29"	650b / 27.5"
WIDTH	2.0"	2.0"
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
WEIGHT	650g	600g
USE	Cross country racing	Cross country racing

Tread Casing



Black | Black

Tubulars

MTB TWO



Series	PRO	PRO
TPI	300	300
CASING	SuperPoly	SuperPoly
SIZE	29"	650b / 27.5"
WIDTH	2.2"	2.2"
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
WEIGHT	650g	600g
USE	Cross country racing	Cross country racing

Tread Casing



Black | Red

ACCESSORIES



2015 Tour de France Stage 9 TTT

ACCESSORIES

SEAMLESS LATEX INNER TUBE



19 - 28 mm

29 - 38 mm



	19 - 28 mm	29 - 38 mm
VALVE	Presta	Presta
TYPE	2pcs, Removable Core	2pcs, Removable Core
SIZE	700	700
WIDTH	19 - 28 mm	29 - 38 mm
CONSTRUCTION	Handmade	Handmade
INNER TUBE	Latex	Latex
VALVE LENGTH	47.5mm	47.5mm
WEIGHT	60g	75g
USE	Road / TRI / Track	Cyclocross / Gravel / Touring

ACCESSORIES

PRESTA VALVE EXTENSION KIT



VALVE	Presta, inline (helps differentiate from screw-on external style)
LENGTH	42 mm
WEIGHT	4g each
INCLUDES	2 extensions, 1 tool

ACCESSORIES

PROFESSIONAL RIM CEMENT 25G TUBE OR 180G CAN



MASTER PRODUCT CHART

- TU = Handmade Tubulars
- OT = Handmade Open Tubulars
- CL = Vulcanized Clinchers
- ACC = Accessories

NEW = New product or spec for 2016



AM BAR CODE AM Part #	TIRE MODEL	TYPE	SERIES	COLOR		TPI (Threads Per Inch)	CASING MATERIAL	REQUIRED		CONSTRUCT	TUBE	BEAD	PPS	WEIGHT ± 5% g	USE		
				TREAD	CASING			ETRTO - Tire SIZE mm	WIDTH mm							ETRTO - Rim SIZE mm	WIDTH mm
TRACK																	
Tubulars																	
885562710006 8	PISTA	TU	ULTRA	Black	Cream	1000+	Silk	28"	22	622	13-15	Handmade	Latex	-	-	185	Track Racing
885562710007 5	PISTA	TU	SC	Black	White	320	Corespun Cotton	28"	22	622	13-15	Handmade	Latex	-	-	195	Track Racing
Open Tubulars																	
885562700006 1	PISTA	OT	SC	Black	White	320	Corespun Cotton	700	23	622	13-15	Handmade	-	Aramid	-	170	Track Racing
TIME TRIAL / TRIATHLON																	
Tubulars																	
885562710207 9	RECORD	TU	PRO	Black	Black	300	SuperPoly	28"	22	622	13-15	Handmade	Latex	-	PPS2	260	Time Trial/Triathlon
885562710209 3	RECORD	TU	PRO	Black	Black	300	SuperPoly	28"	24	622	13-15	Handmade	Latex	-	PPS2	270	Time Trial/Triathlon
Open Tubulars																	
885562710504 2	RECORD	OT	PRO	Black	Black	300	SuperPoly	700	23	622	13-15	Handmade	-	Aramid	PPS2	215	Time Trial/Triathlon
ROAD																	
Tubulars																	
885562710307 6	CRITERIUM	TU	ULTRA	Black	Cream	1000+	Silk	28"	23	622	13-15	Handmade	Latex	-	PPS	260	Road Racing
885562710308 3	CRITERIUM	TU	ULTRA	Black	Cream	1000+	Silk	28"	25	622	13-17	Handmade	Latex	-	PPS	270	Road Racing
885562710325 0	CRITERIUM	TU	SC	Black	White	320	Corespun Cotton	28"	23	622	13-15	Handmade	Latex	-	PPS	260	Road Racing
885562710326 7	CRITERIUM	TU	SC	Black	Black	320	Corespun Cotton	28"	23	622	13-15	Handmade	Latex	-	PPS	260	Road Racing
885562710330 4	CRITERIUM	TU	SC	Black	White	320	Corespun Cotton	28"	25	622	13-17	Handmade	Latex	-	PPS	270	Road Racing
885562710331 1	CRITERIUM	TU	SC	Black	Black	320	Corespun Cotton	28"	25	622	13-17	Handmade	Latex	-	PPS	270	Road Racing
885562710403 5	FORTE	TU	PRO	Black	Black	300	SuperPoly	28"	24	622	13-15	Handmade	Latex	-	PPS	275	Road Racing / Big Rider / Rough Roads
885562710504 9	STRADA	TU	PRO	Black	Tan	300	SuperPoly	28"	25	622	13-17	Handmade	Latex	-	PPS	285	Road Racing / Big Rider / Rough Roads
885562710505 6	STRADA	TU	PRO	Black	Black	300	SuperPoly	28"	25	622	13-17	Handmade	Latex	-	PPS	285	Road Racing / Big Rider / Rough Roads
885562710603 9	PARIS-ROUBAIX	TU	PRO	Black	Tan	300	SuperPoly	28"	27	622	13-19	Handmade	Latex	-	PPS2	330	Road / Cobble / Gravel Racing / Big Rider
885562710604 6	PARIS-ROUBAIX	TU	PRO	Black	Black	300	SuperPoly	28"	27	622	13-19	Handmade	Latex	-	PPS2	330	Road / Cobble / Gravel Racing / Big Rider
885562710512 4	MIRAGE	TU	PRO	Black	Black	260	SuperPoly	28"	24	622	13-15	Handmade	Butyl	-	PPS2	280	Road Training / Racing
885562710504 7	VULCANO	TU	PRO	Black	Tan	220	Poly	28"	23	622	13-15	Semi-Vulcanized	Butyl	-	PPS	295	Road Training
885562710902 3	VULCANO	TU	PRO	Black	Black	220	Poly	28"	23	622	13-15	Semi-Vulcanized	Butyl	-	PPS	295	Road Training
885562710905 4	VULCANO	TU	PRO	Black	Tan	220	Poly	28"	25	622	13-15	Semi-Vulcanized	Butyl	-	PPS	315	Road Training
885562710903 0	VULCANO	TU	PRO	Black	Black	220	Poly	28"	25	622	13-15	Semi-Vulcanized	Butyl	-	PPS	315	Road Training
Open Tubulars																	
885562700120 4	CRITERIUM	OT	SC	Black	White	320	Corespun Cotton	700	23	622	13-15	Handmade	-	Aramid	PPS	205	Road Racing
885562700121 1	CRITERIUM	OT	SC	Black	Black	320	Corespun Cotton	700	23	622	13-15	Handmade	-	Aramid	PPS	205	Road Racing
885562700125 9	CRITERIUM	OT	SC	Black	White	320	Corespun Cotton	700	25	622	13-17	Handmade	-	Aramid	PPS	215	Road Racing
885562700126 6	CRITERIUM	OT	SC	Black	Black	320	Corespun Cotton	700	25	622	13-17	Handmade	-	Aramid	PPS	215	Road Racing
885562700508 0	STRADA	OT	PRO	Black	Tan	300	SuperPoly	700	25	622	13-17	Handmade	-	Aramid	PPS	240	Road Racing / Big Rider / Rough Roads
885562700509 7	STRADA	OT	PRO	Black	Black	300	SuperPoly	700	25	622	13-17	Handmade	-	Aramid	PPS	240	Road Racing / Big Rider / Rough Roads
885562700512 7	PARIS-ROUBAIX	OT	PRO	Black	Tan	300	SuperPoly	700	27	622	13-19	Handmade	-	Aramid	PPS2	285	Road / Cobble / Gravel Racing / Big Rider
885562700513 4	PARIS-ROUBAIX	OT	PRO	Black	Black	300	SuperPoly	700	27	622	13-19	Handmade	-	Aramid	PPS2	285	Road / Cobble / Gravel Racing / Big Rider
885562700208 9	ELITE	OT	PRO	Black	Tan	260	SuperPoly	700	23	622	13-15	Handmade	-	Aramid	PPS	230	Road Training / Racing
885562700203 4	ELITE	OT	PRO	Black	Black	260	SuperPoly	700	23	622	13-15	Handmade	-	Aramid	PPS	230	Road Training / Racing
885562700215 7	ELITE	OT	PRO	Black	Tan	260	SuperPoly	700	25	622	13-17	Handmade	-	Aramid	PPS	240	Road Training / Racing
885562700216 4	ELITE	OT	PRO	Black	Black	260	SuperPoly	700	25	622	13-17	Handmade	-	Aramid	PPS	240	Road Training / Racing
Clinchers																	
885562700901 9	FORTE	CL	RACE	Black	Black	120	Nylon	700	23	622	13-15	Vulcanized	-	Aramid	PPS	195	Road Training
885562700902 6	FORTE	CL	RACE	Black	Black	120	Nylon	700	25	622	13-17	Vulcanized	-	Aramid	PPS	205	Road Training
885562700940 8	PARIS-ROUBAIX	CL	RACE	Black	Black	120	Nylon	700	27	622	13-19	Vulcanized	-	Aramid	PPS	215	Road Racing / Big Rider / Rough Roads
885562700905 7	FORTE	CL	PLUS	Black	Black	60	Nylon	700	23	622	13-15	Vulcanized	-	Aramid	-	218	Road Training
885562700906 4	FORTE	CL	PLUS	Black	Black	60	Nylon	700	25	622	13-17	Vulcanized	-	Aramid	-	230	Road Training
885562700935 4	PARIS-ROUBAIX	CL	PLUS	Black	Black	60	Nylon	700	27	622	13-19	Vulcanized	-	Aramid	-	240	Road Training / Big Rider / Rough Roads

GRAVEL															
Tubulars															
885562710607 7	STRADA BIANCA	PRO	Black	Tan	260	SuperPoly	28"	30	622	15-19	Handmade	Latex	PPS2	380	Rough Road, Cobbles, Big Riders, Hard Packed Dirt
885562710608 4	STRADA BIANCA	PRO	Black	Black	260	SuperPoly	28"	30	622	15-19	Handmade	Latex	PPS2	380	Rough Road, Cobbles, Big Riders, Hard Packed Dirt
885562710612 1	ALMANZO	PRO	Black	Tan	260	SuperPoly	28"	33	622	15-19	Handmade	Latex	PPS2	390	Hard Pack Dirt to Light Gravel
885562710613 8	ALMANZO	PRO	Black	Black	260	SuperPoly	28"	33	622	15-19	Handmade	Latex	PPS2	390	Hard Pack Dirt to Light Gravel

Open Tubulars																
885562700517 2	STRADA BIANCA	PRO	Black	Tan	260	SuperPoly	700	30	622	15-19	Handmade	-	Aramid	PPS2	355	Rough Road, Cobbles, Big Riders, Hard Packed Dirt
885562700518 9	STRADA BIANCA	PRO	Black	Black	260	SuperPoly	700	30	622	15-19	Handmade	-	Aramid	PPS2	355	Rough Road, Cobbles, Big Riders, Hard Packed Dirt
885562700524 0	ALMANZO	PRO	Black	Tan	260	SuperPoly	700	33	622	15-19	Handmade	-	Aramid	PPS2	385	Hard Pack Dirt to Light Gravel
885562700525 7	ALMANZO	PRO	Black	Black	260	SuperPoly	700	33	622	15-19	Handmade	-	Aramid	PPS2	385	Hard Pack Dirt to Light Gravel
885562700530 1	GRAVEL GRINDER	PRO	Black	Tan	260	SuperPoly	700	36	622	17-23	Handmade	-	Aramid	PPS2	355	All Around, Big Gravel, Big Rider
885562700531 8	GRAVEL GRINDER	PRO	Black	Black	260	SuperPoly	700	36	622	17-23	Handmade	-	Aramid	PPS2	355	All Around, Big Gravel, Big Rider

Clinchers																
885562701958 2	STRADA BIANCA	CL	RACE	Black	120	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	PPS	355	Rough Road, Cobbles, Big Riders, Hard Packed Dirt
885562701940 7	GRAVEL GRINDER	CL	RACE	Black	120	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	PPS	365	All Around Gravel
885562701938 4	GRAVEL GRINDER	CL	RACE	Black	120	Nylon	700	38	622	17-23	Vulcanized	-	Aramid	PPS	375	All Around Gravel
885562701956 4	STRADA BIANCA	CL	PLUS	Black	60	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	PPS	365	Rough Road, Cobbles, Big Riders, Hard Packed Dirt
885562701936 0	GRAVEL GRINDER	CL	PLUS	Black	60	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	PPS	375	All Around Gravel
885562701934 6	GRAVEL GRINDER	CL	PLUS	Black	60	Nylon	700	38	622	17-23	Vulcanized	-	Aramid	PPS	395	All Around Gravel

CYCLOCROSS																
885562710707 4	GRIFO	TU	ULTRA	Black	1000+	Silk	28"	33	622	15-19	Handmade	Latex	-	PPS	405	Cross Racing: All Around Soft Pack
885562710709 8	GRIFO	TU	TE	Black	320	Corespun Cotton	28"	33	622	15-19	Handmade	Latex	-	PPS	405	Cross Racing: All Around Soft Pack
885562710717 3	BABY LIMUS	TU	TE	White	320	Corespun Cotton	28"	33	622	15-19	Handmade	Latex	-	PPS	395	Cross Racing: Sticky Mud
885562710723 4	LIMUS	TU	TE	Black	320	Corespun Cotton	28"	33	622	15-19	Handmade	Latex	-	PPS	410	Cross Racing: Deep Mud
885562710812 5	CHICANE	TU	TE	Black	320	Corespun Cotton	28"	33	622	15-19	Handmade	Latex	-	PPS	400	Cross Racing: Deep Mud
885562710706 7	GRIFO	TU	PRO	Black	300	SuperPoly	28"	33	622	15-19	Handmade	Latex	-	PPS	415	Cross Racing: All Around Soft Pack
885562710708 1	GRIFO	TU	PRO	White	300	SuperPoly	28"	33	622	15-19	Handmade	Latex	-	PPS	415	Cross Racing: All Around Soft Pack
885562710715 9	BABY LIMUS	TU	PRO	Black	300	SuperPoly	28"	33	622	15-19	Handmade	Latex	-	PPS	395	Cross Racing: Sticky Mud
885562710720 3	LIMUS	TU	PRO	Black	300	SuperPoly	28"	33	622	15-19	Handmade	Latex	-	PPS	425	Cross Racing: Deep Mud
885562710810 1	CHICANE	TU	PRO	Black	300	SuperPoly	28"	33	622	15-19	Handmade	Latex	-	PPS	415	Cross Racing: Dry, Grassy, Dusty or Icy Conditions

Open Tubulars																
885562700603 2	GRIFO	OT	PRO	Black	300	SuperPoly	700	33	622	15-19	Handmade	-	Aramid	PPS	355	Cross Racing: All Around Soft Pack
885562700604 9	GRIFO	OT	PRO	White	300	SuperPoly	700	33	622	15-19	Handmade	-	Aramid	PPS	355	Cross Racing: All Around Soft Pack
885562700616 2	BABY LIMUS	OT	PRO	Black	300	SuperPoly	700	33	622	15-19	Handmade	-	Aramid	PPS	345	Cross Racing: Sticky Mud
885562700620 9	LIMUS	OT	PRO	Black	300	SuperPoly	700	33	622	15-19	Handmade	-	Aramid	PPS	365	Cross Racing: Deep Mud
885562700710 7	CHICANE	OT	PRO	Black	300	SuperPoly	700	33	622	15-19	Handmade	-	Aramid	PPS	355	Cross Racing: Dry, Grassy, Dusty or Icy Conditions

Clinchers																
885562701910 0	GRIFO	CL	RACE	Black	120	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	-	330	Cross Racing / Training: All Around Soft Pack
885562701919 3	CHICANE	CL	RACE	Black	120	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	-	330	Cross Racing: Dry, Grassy, Dusty or Icy Conditions
885562701905 6	GRIFO	CL	PLUS	Black	60	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	-	350	Cross Training: All Around Soft Pack
885562701917 9	CHICANE	CL	PLUS	Black	60	Nylon	700	33	622	15-19	Vulcanized	-	Aramid	-	350	Cross Training: Dry, Grassy, Dusty or Icy Conditions




MOUNTAIN																
885562711102 6	MTB ONE 29"x 2.0"	TU	TE	Black	300	Polycotton	29"	2.0"	622	17-27	Handmade	Latex	-	-	650	MTB XC Racing
885562711103 3	MTB TWO 29"x 2.2"	TU	TE	Black	300	Polycotton	29"	2.2"	622	21-29	Handmade	Latex	-	-	650	MTB XC Racing
885562711105 7	MTB ONE 27.5" x 2.0"	TU	TE	Black	300	Polycotton	27.5"	2.0"	584	17-27	Handmade	Latex	-	-	600	MTB XC Racing
885562711106 4	MTB TWO 27.5" x 2.2"	TU	TE	Black	300	Polycotton	27.5"	2.2"	584	21-29	Handmade	Latex	-	-	600	MTB XC Racing

ACCESSORIES													
AM BAR CODE	MODEL	TYPE	SERIES	SIZE	WIDTH	ETRTO	VALVE LENGTH	VALVE TYPE	VALVE	TUBE	CONSTRUCT	WEIGHT	USE
AM Part #				mm	mm	mm	mm					g	
885562790001 9	Rim Cement 25g Tube	ACC										25	Tubular Tires
885562790002 6	Rim Cement 180g Tin	ACC										180	Tubular Tires
885562790005 7	Valve Extensions	ACC	Set of 2 + Tool	5.5mm	42mm			Removable Core	Presta	Latex	Alloy	4	Deep Section Wheels
885562780001 2	Latex Tube - Road	ACC	ULTRA	700	19-28	622	48mm	Removable Core	Presta	Latex	Seamless	60	Road Racing
885562780003 6	Latex Tube - Cross / Gravel	ACC	ULTRA	700	29-38	622	48mm	Removable Core	Presta	Latex	Seamless	72	Cyclocross / Gravel / Touring



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