



BOOKLET SCORPION FAMILY

2022





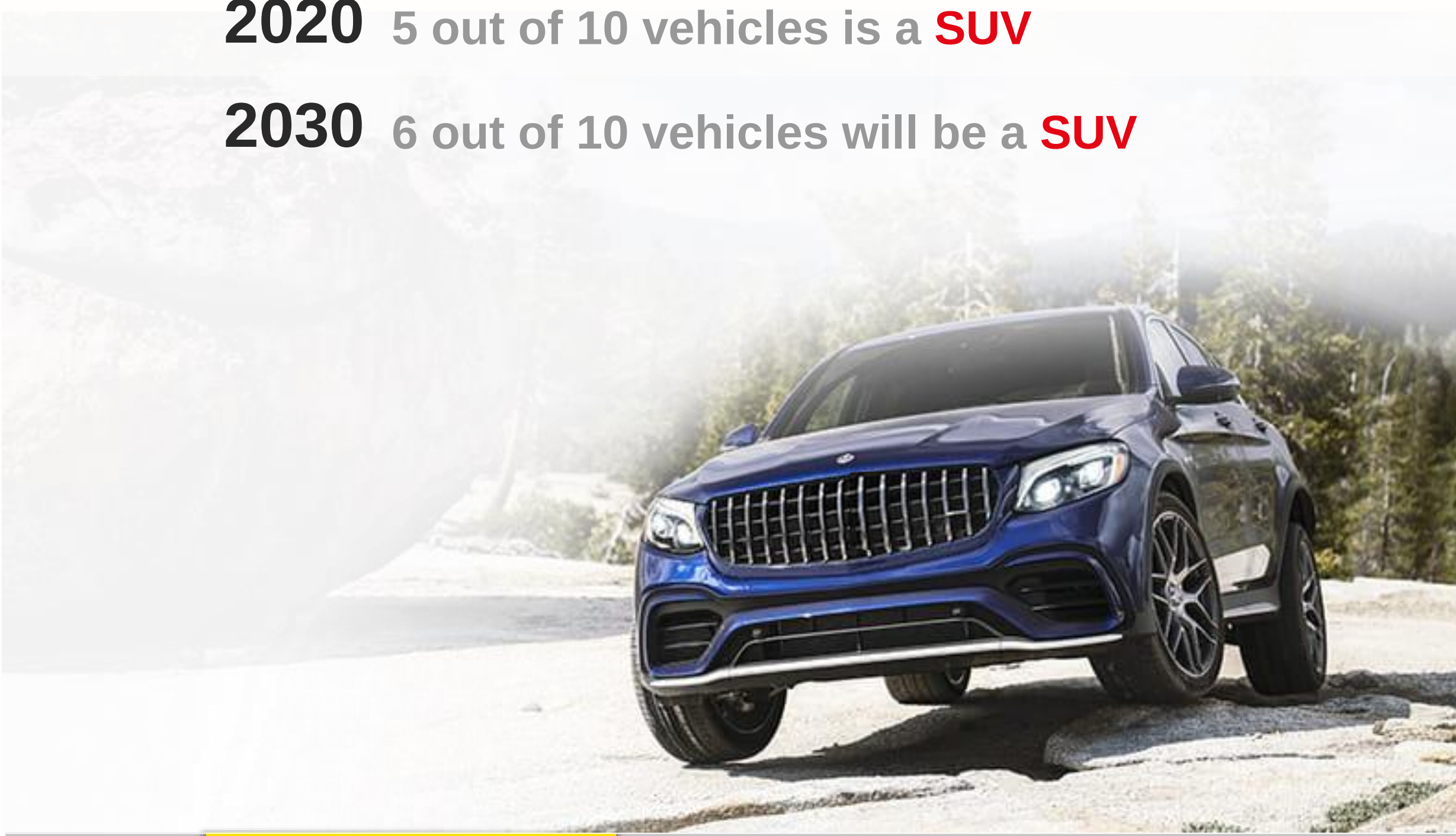
MARKET TRENDS



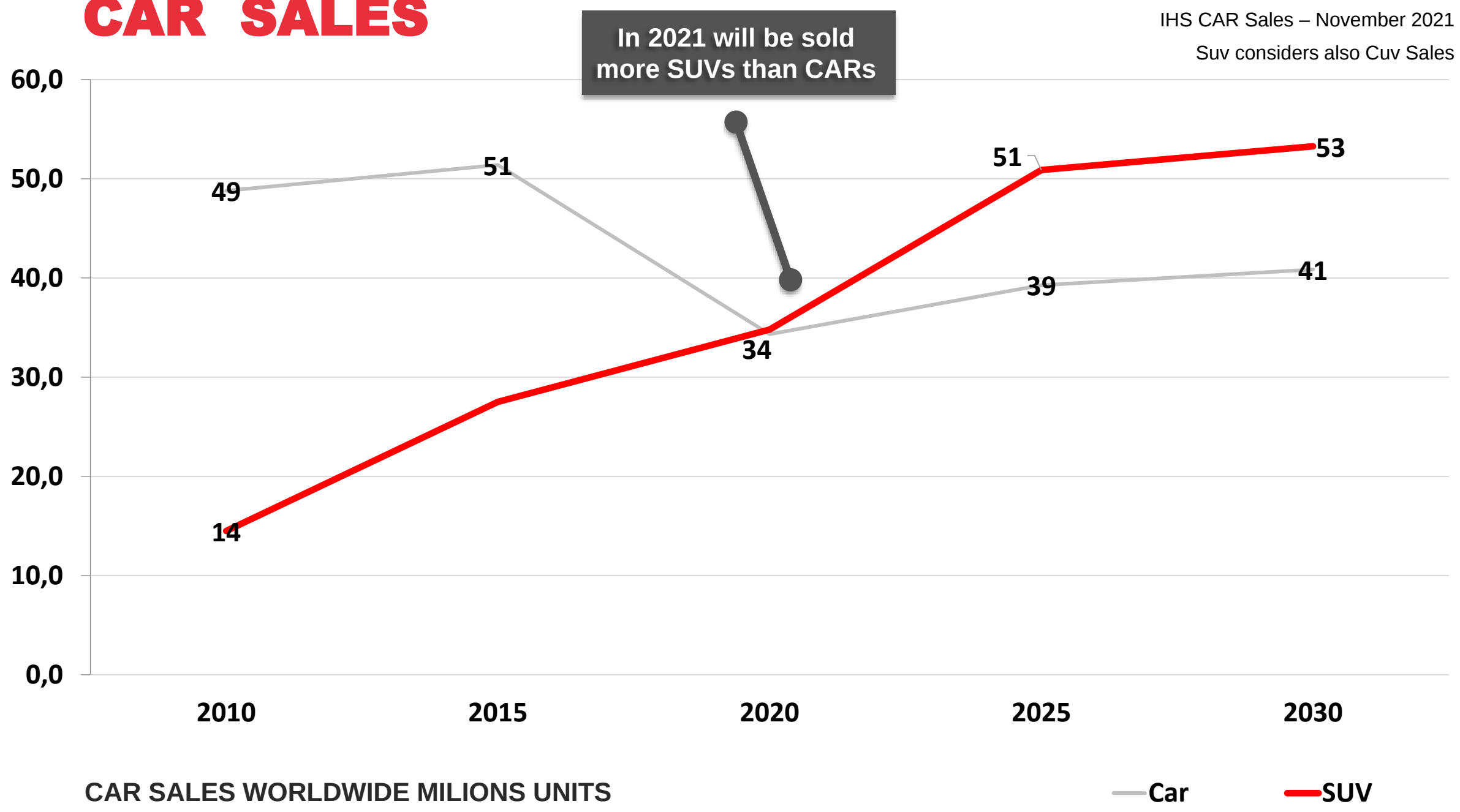
THE GROWING IMPORTANCE OF SUV IN THE AUTOMOTIVE MARKET

The SUV segment has steadily growth in the last 10 years and will continue to grow in next future.
This growth will further accelerate thanks to an increasing importance of SUVs in the EV transiction.

- 2010 1 out of 10 vehicles is a SUV
- 2020 5 out of 10 vehicles is a SUV
- 2030 6 out of 10 vehicles will be a SUV



CAR SALES





THE GROWING IMPORTANCE OF SUV IN THE TYRE MARKET



**SUV TYRE MARKET
DOUBLED ITS WEIGHT
IN 10 YEARS**

6% IN 2010 VS 12% IN 2020

Internal Estimates – Sell In Tyres units volumes, Europe
Zone no Nordics
Weight of SUV over market volumes; Van Not included

**SUV TYRE MARKET
IS HIGHLY FOCUSED
IN UPPER RIM BANDS**

4 OUT OF 10 TYRES SOLD IN
THE 19" UP IS A SUV TYRE

Internal Estimates – Sell In Tyres units volumes,
Europe Zone no Nordics
Van Not included

**OVER 90% OF THE SUV MARKET IS
REPRESENTED BY SUMMER AND
WINTER**

HOWEVER, ALL SEASON 3PMSF MARKET IS
TAKING GROWING PLACE IN THE MARKET (+31%
CAGR*), MAINLY IN NON SEASONAL AREAS

Internal Estimates – Sell In Tyres units volumes,
Europe Zone no Nordics.
All Season considers 3PMSF AS market. CAGR: 2018-
2020. Summer includes AS M+S

MARKET TRENDS

PRODUCT PORTFOLIO





THE LEADERSHIP OF PIRELLI IN THE SUV TYRE MARKET

Pirelli is market leader in SUV tyre market with almost 20% market share.
Pirelli leadership is enhanced in all seasonalities* and is strengthened in the high value segment:

- In 18”up, 1 out of 4 tyres is a Pirelli tyre.
- In 19”up, 3 out of 10 tyres is a Pirelli tyre.

Internal Estimates– Based on Germany, Italy, France, UK Sell-out market.
*All Season includes both M+S and 3PMSF application

SCORPION™ FAMILY NUMBERS

180 MLNs SCORPION™ TYRES SOLD IN 25 YEARS

>20 SCORPION™ LINES INTRODUCED IN 20 YEARS

>800 SCORPION™ HOMOLOGATIONS IN PIRELLI PORTFOLIO

~500 SCORPION™ OE PROJECTS EXPECTED IN THE NEXT 5 YEARS



Internal Estimates – worldwide data provided

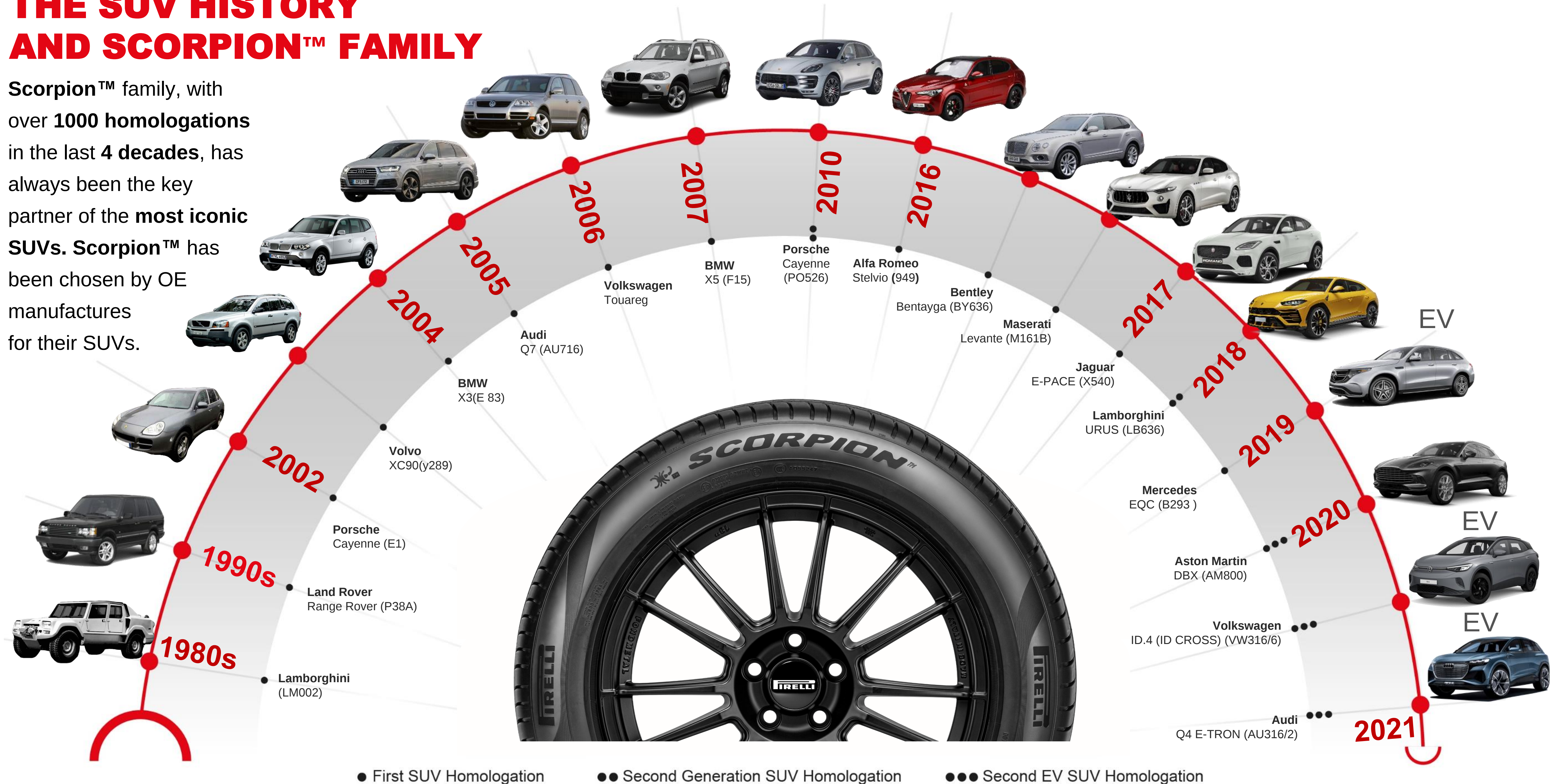


CONTINUOUS PRODUCT EVOLUTION IN LINE WITH CONSUMER NEEDS

SCORPION™		 ALL TERRAIN	 ON ROAD	
	SUMMER		SCORPION VERDE™	 SCORPION™
	ALL SEASON M+S	SCORPION™ ATR	SCORPION ZERO™ ALL SEASON SCORPION VERDE™ ALL SEASON	
	ALL SEASON 3PMSF	 SCORPION™ ALLTERRAIN Plus	 SCORPION™ VERDE ALL SEASON SF	 SCORPION™ ALL SEASON SF 2
	WINTER		SCORPION™ WINTER	 SCORPION™ WINTER 2

THE SUV HISTORY AND SCORPION™ FAMILY

Scorpion™ family, with over 1000 homologations in the last 4 decades, has always been the key partner of the most iconic SUVs. Scorpion™ has been chosen by OE manufacturers for their SUVs.





PRODUCT PORTFOLIO



INTRODUCING SCORPION™ FAMILY



SCORPION™



SCORPION™
ALL SEASON *SF 2*



SCORPION™
WINTER 2



SCORPION™

New **Scorpion™** is the latest Pirelli Summer high performance product for SUV application with a strong focus on **wet performances, mileage, rolling resistance and driving comfort**. Thanks to latest technological developments, new **Scorpion™** ensures excellent performances in the following areas:

- Safety
- Efficiency
- Sustainability
- Comfort

SCORPION™



AVAILABLE IN ALL TECHNOLOGIES: **RUN FLAT**



PNCS

ELEET

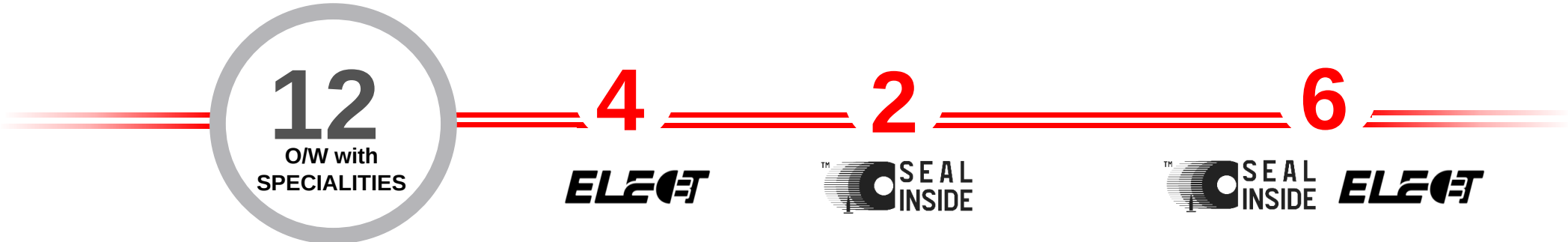


SCORPION™

PRODUCT HIGHLIGHTS

SCORPION™

#lpcode	26
Width	225-275
Ratio	40-60
Rim	18''-21''
Speed	T-V-W-Y
RR (est.)	100% A-B
Wet Grip (est.)	100% A-B



Range @Jan Pricelist 2022

Range @Jan Pricelist 2022

MAIN HOMOLOGATED FITMENTS



VW ID.4 **ELECT**

- 35190 - 235/60R18 103T SCORPN(+)
elt
- 35641 - 235/55R19 101T SCORPN(AO)(+)
elt
- 37697 - 255/50R19 103T SCORPN(AO)(+)
elt
- 35642 - 235/55R19 101T s-i SCORPN(+)
elt
- 37693 - 255/50R19 103T s-i SCORPN(+)
elt
- 35643 - 235/50R20 100Ts-iSCORPN(AO)(+)
elt
- 37694 - 255/45R20 101Ts-iSCORPN(AO)(+)
elt
- 35644 - 235/45R21101TXLs-iSCORPN(AO+)
elt
- 37695 - 255/40R21102TXLs-iSCORPN(AO+)
elt



VW TIGUAN

- 32758 - 235/55R18 100V s-i SCORPN
- 36349 - 235/50R19 99V SCORPN
- 32757 - 255/45R19 100V s-i SCORPN
- 36305 - 255/45R19 100V SCORPN



JEEP COMPASS **ELECT**

- 38305 - 235/55R18 100H SCORPN(JP)
elt
- 38306 - 225/55R18 98H SCORPN(JP)(KS)



SEAT TARRACO

- 32757 255/45R19 100V s-i SCORPN
- 32758 235/55R18 100V s-i SCORPN



SKODA KODIAQ

- 36349 235/50R19 99V SCORPN
- 38301 235/55R18 100V SCORPN

MARKET TRENDS

PRODUCT PORTFOLIO



Strictly confidential material



SCORPION™

OVERVIEW



EXCELLENT LABELS

- STRONG FUEL EFFICIENCY:
100% ROLLING RESISTANCE IN A-B
- STRONG FOCUS ON **SAFETY**:
100% WET GRIP IN A-B



MINIMUM NOISE EMISSIONS

- NOISE PERFORMANCE* -1/2DB vs previous generation product

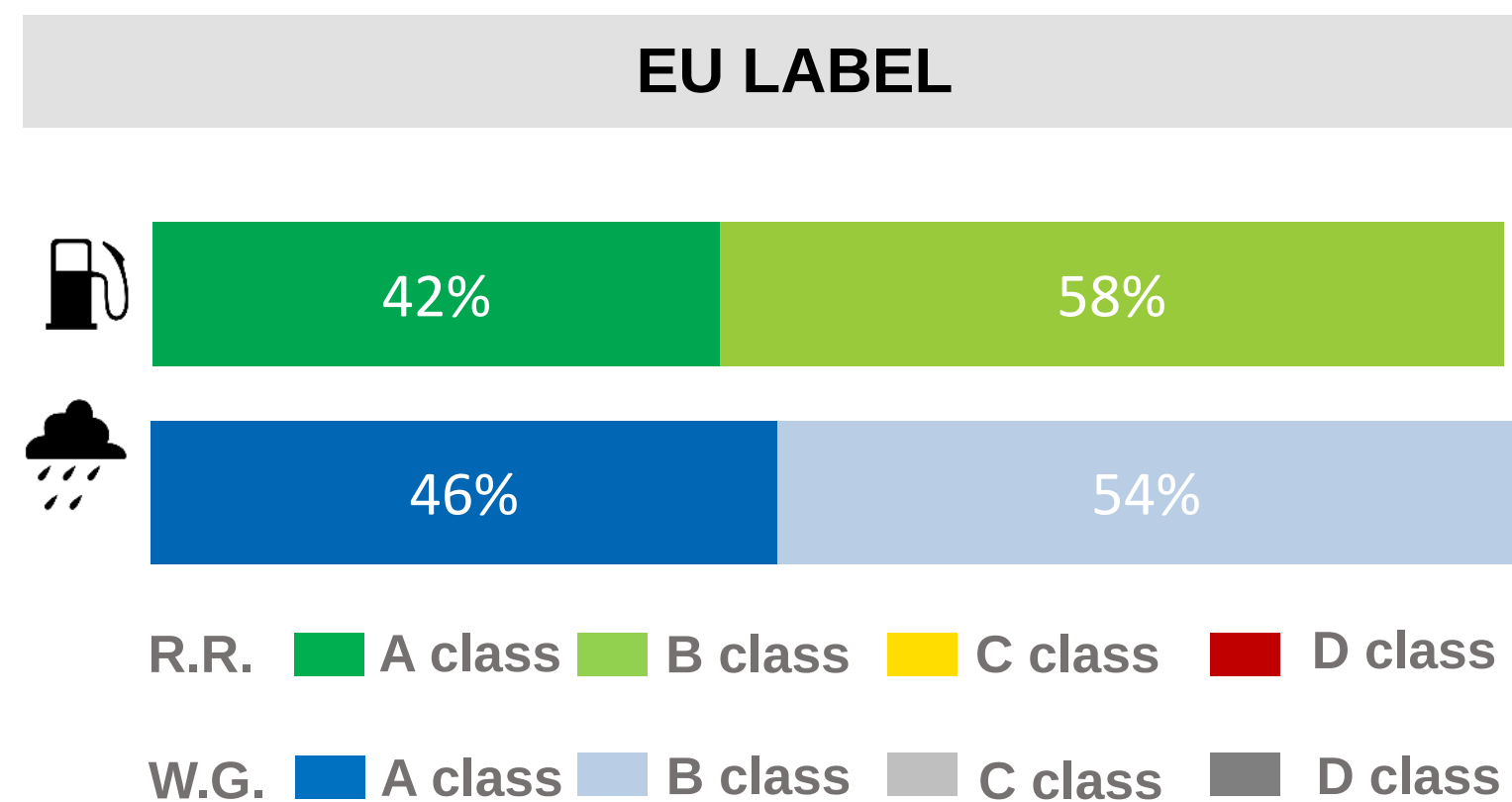
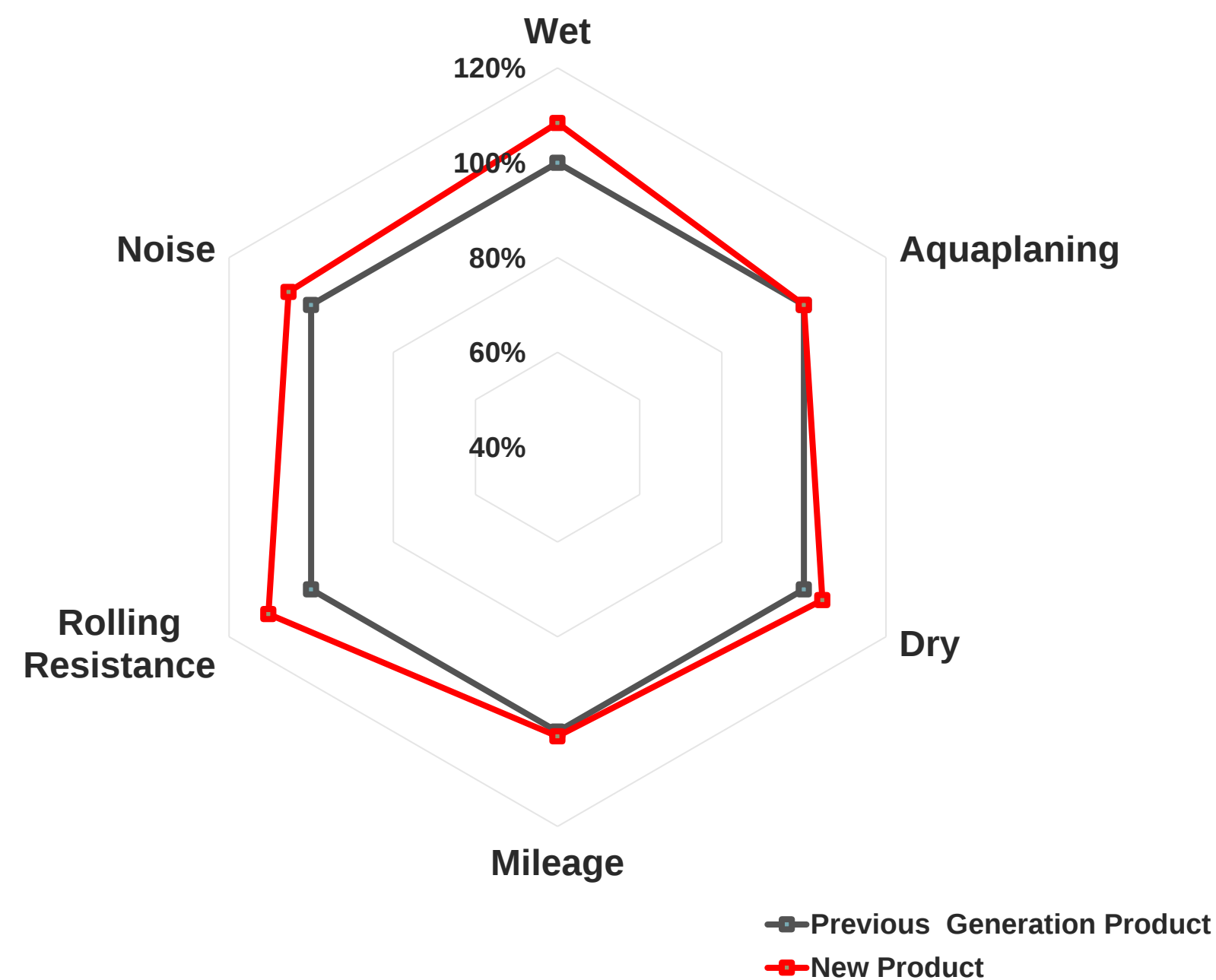
**Considering Homologative Noise*



STRONG IMPROVEMENT IN WET & DRY VS PREV. GEN.

+ 8 PERCENTAGE POINTS VS PREV. GENERATION IN WET HANDLING AND BRAKING

+ 5 PERCENTAGE POINTS VS PREV. GENERATION IN DRY HANDLING AND BRAKING

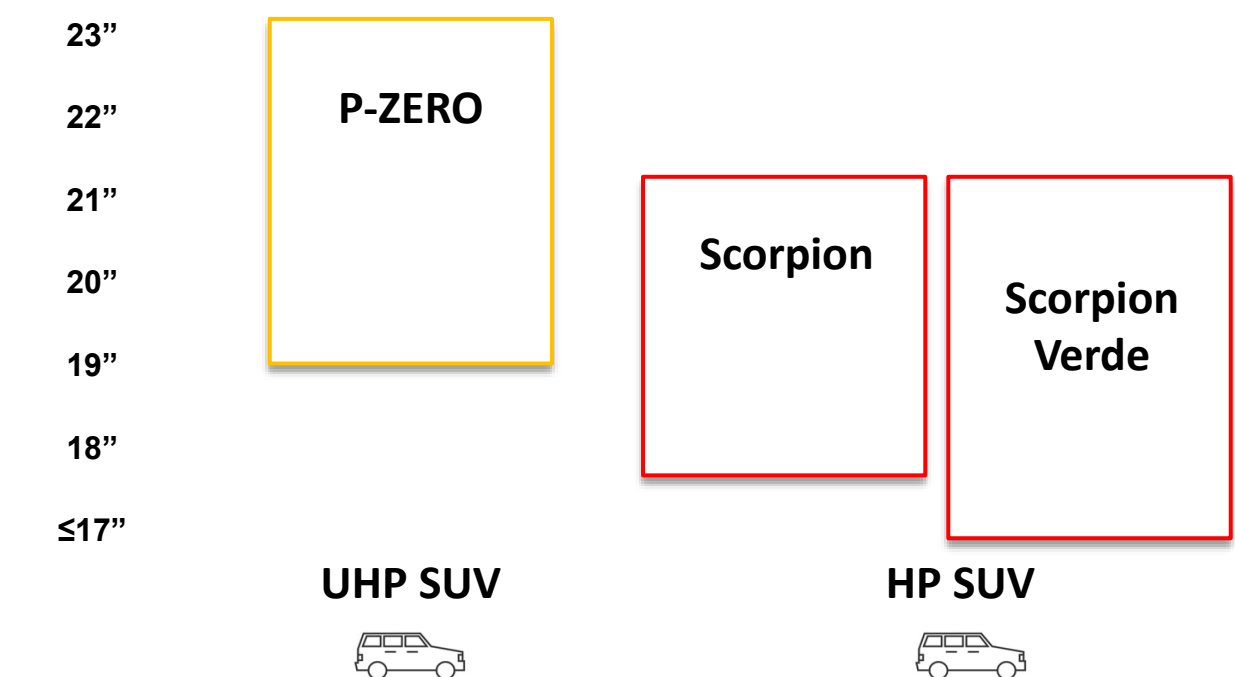


Range @Jan Pricelist 2022

SCORPION™



STRATEGIC POSITIONING



MARKET TRENDS

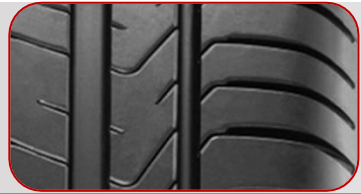
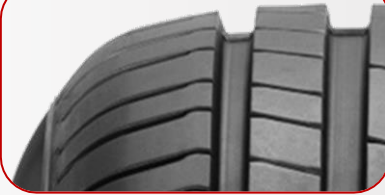
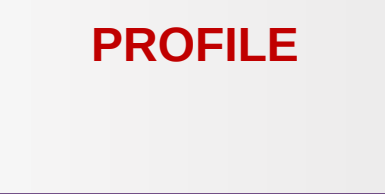
PRODUCT PORTFOLIO



SCORPION™

TECHNICAL FEATURES AND BENEFITS

SCORPION™

	FEATURE	ADVANTAGE	BENEFIT	
TREAD PATTERN	 VARIABLE SECTION LATERAL GROOVES	Groove becomes wider at shoulder exit	Safe aquaplaning levels without compromising noise	
	 OPTIMIZED LAND/SEA RATIO	- Higher tread stiffness - Improved stiffness uniformity	- Better braking - Improved noise emissions - Improved handling	
TREAD PATTERN	 INNOVATIVE CHAMFER DESIGN	Reduces pressures spikes in the footprint during braking	Reduced braking distance	TREAD PATTERN
	 OPTIMIZED PITCH SEQUENCE	Smooth transition between pitches during rolling	- More comfort - Lower noise levels	
PROFILE	 NARROW FLAT CAP PROFILE, FLAT BELTS DESIGN	- Uniform footprint pressure distribution - No spikes during braking - Less belt deformations	- Reduced braking distance - Lower RR - Enhanced wear	TREAD PATTERN
	 FULL SILICA LOWER TRANSITION TEMPERATURE TREAD COMPOUND	- Overcome trade of wet/rolling - Improves mechanical properties - Higher grip levels	- Increased mileage - Better wet performances - Performance stability	
REINFORCEMENT	 STIFFER PLY STRUCTURE	- Lower energy dissipation - Lower weight - Tuned level of stiffness	Enhance handling performances	COMPOUND MATERIALS





SCORPION™

RANGE AND FITMENTS

SCORPION™

RIM	ROOT	IP	IP DESCRPTION	MAIN FITMENT/HOMOLOGATION
18	225/55R18	38306	225/55R18 98H SCORPN(JP)(KS)	JEEP Compass(560)
18	235/50R18	40920	235/50R18 101Y XL SCORPN	AUDI Q3 (AU316); SEAT Tarraco(SE326/1); MERCEDES GLA-Class(H247)
18	235/55R18	32758	235/55R18 100V s-i SCORPN	VOLKSWAGEN Tiguan(VW326); SEAT Tarraco(SE326/1)
18	235/55R18	38301	235/55R18 100V SCORPN	SKODA Kodiaq(SK326/1)
18	235/55R18	38305	235/55R18 100H SCORPN(JP) elt	JEEP Compass(560)
18	235/60R18	35190	235/60R18 103T SCORPN(+) elt	VOLKSWAGEN ID.4(VW316/6) ; SKODA Enyaq(SK316/5)
18	235/60R18	40312	235/60R18 107W XL SCORPN	VOLVO XC60(V426); MERCEDES GLE-Class(W/V 166); MERCEDES GLC-Class(X/C 253); JAGUAR E-Pace(X540) ; AUDI Q5(AU426); ALFA ROMEO Stelvio(949)
18	255/55R18	40921	255/55R18 109Y XL SCORPN	MERCEDES GLE-Class(W166); BMW X5(G05)
18	255/60R18	40922	255/60R18 112V XL SCORPN	LAND ROVER Range Rover(L560); JAGUAR F-Pace(X761); AUDI Q7(AU536)
19	235/45R19	40923	235/45R19 99Y XL SCORPN	MERCEDES GLA-Class(H247); JEEP Compass(560)
19	235/50R19	36349	235/50R19 99V SCORPN	VOLKSWAGEN Tiguan(VW326); SKODA Kodiaq(SK326/1)
19	235/55R19	35641	235/55R19 101T SCORPN(AO)(+) elt	VOLKSWAGEN ID.4(VW316/6) F ; SKODA Enyaq(SK316/5) F
19	235/55R19	35642	235/55R19 101T s-i SCORPN(+) elt	VOLKSWAGEN ID.4(VW316/6) F ; SKODA Enyaq(SK316/5) F
19	235/55R19	40313	235/55R19 105W XL SCORPN	VOLVO XC60(V426);MERCEDES GLC-Class(X/C 253); MERCEDES EQC(N293) AR/F ; JAGUAR E-Pace(X540); AUDI Q5(AU426); ALFA ROMEO Stelvio(949)
19	255/45R19	32757	255/45R19 100V s-i SCORPN	VOLKSWAGEN Tiguan(VW326); SEAT Tarraco(SE326/1)
19	255/45R19	36305	255/45R19 100V SCORPN	VOLKSWAGEN Tiguan(VW326)
19	255/50R19	37693	255/50R19 103T s-i SCORPN(+) elt	VOLKSWAGEN ID.4(VW316/6) R; SKODA Enyaq(SK316/5) R
19	255/50R19	37697	255/50R19 103T SCORPN(AO)(+) elt	VOLKSWAGEN ID.4(VW316/6) R; SKODA Enyaq(SK316/5) R
20	235/45R20	40924	235/45R20 100W XL SCORPN	VOLKSWAGEN Tiguan(VW326); SKODA Kodiaq(SK326/1); SEAT Tarraco(SE326/1); MERCEDES GLB-Class(X247); DS DS 7(X74)
20	235/50R20	35643	235/50R20 100Ts-iSCORPN(AO)(+)elt	VOLKSWAGEN ID.4(VW316/6) F; SKODA Enyaq(SK316/5) F
20	255/45R20	37694	255/45R20 101Ts-iSCORPN(AO)(+)elt	VOLKSWAGEN ID.4(VW316/6)R ; SKODA Enyaq(SK316/5) R
20	255/45R20	40925	255/45R20 105Y XL SCORPN	VOLVO XC60(V426) ; TESLA Model X(Model X) F ;MERCEDES GLC-Class(X/C 253); MERCEDES EQC(N293)R ; AUDI Q5(AU426) ; ALFA ROMEO Stelvio(949)
20	255/50R20	40926	255/50R20 109Y XL SCORPN	LAND ROVER Range Rover(L560); JAGUAR F-Pace(X761) ; AUDI Q7(AU536); AUDI E-Tron(AU516)
20	275/45R20	40927	275/45R20 110Y XL SCORPN	TESLA Model X(Model X) R ; VOLVO XC90 (V256); VOLKSWAGEN Touareg (VW526)
21	235/45R21	35644	235/45R21101TXLs-iSCORPN(AO+)elt	VOLKSWAGEN ID.4(VW316/6) F; SKODA Enyaq(SK316/5) F
21	255/40R21	37695	255/40R21102TXLs-iSCORPN(AO+)elt	VOLKSWAGEN ID.4(VW316/6)R ; SKODA Enyaq(SK316/5) R

Range @Jan Pricelist 2022. Homologated size. F: Front Size R: Rear Size





SCORPION™ ALL SEASON SF2

New **Scorpion™ All Season SF2** is the new Pirelli All Season 3PMSF line dedicated to SUVs.

- Peace of mind and **safety** in **all conditions**.
- Designed to be used **all year round** without worries about seasonal tyre change.
- **Premium** and **comfortable** drive.

SCORPION™
ALL SEASON SF2



AVAILABLE IN ALL TECHNOLOGIES: **RUN FLAT**  **ELECT**

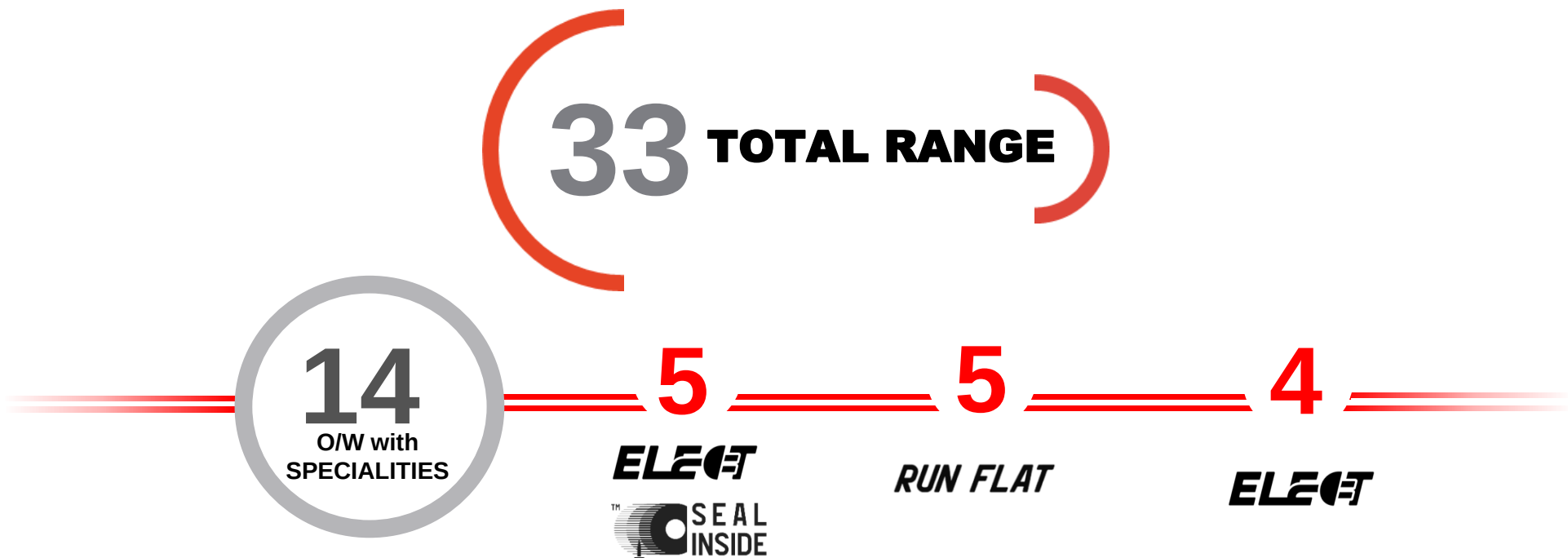


SCORPION™ ALL SEASON SF2
PRODUCT HIGHLIGHTS

Focus:
≥18" segment
(SUV)

#lpcode	33
Width	235-315
Ratio	35-65
Rim	17"-21"
Speed	H-V-W-Y
RR (est.)	100% A-B
Wet Grip (est.)	100% A-B

Range @Jan Pricelist 2022



Range @Jan Pricelist 2022

MAIN FITMENTS



VW TOUAREG

40006 - 255/60R18 112V XL SC-SF2
40019 - 275/45R20 110Y XL SC-SF2



VW ID.4 **ELECT**

40002 - 235/60R18 107W XL s-i SC-SF2 elt
40009 - 235/55R19 105W XL s-i SC-SF2 elt
40011 - 255/50R19 107Y XL s-i SC-SF2 elt
40016 - 255/45R20 105Y XL s-i SC-SF2 elt
40114 - 235/50R20 104Y XL s-i SC-SF2 elt



SKODA ENYAQ

40002 - 235/60R18 107W XL s-i SC-SF2 elt
40009 - 235/55R19 105W XL s-i SC-SF2 elt
40011 - 255/50R19 107Y XL s-i SC-SF2 elt
40016 - 255/45R20 105Y XL s-i SC-SF2 elt



LAND ROVER VELAR

40006 - 255/60R18 112V XL SC-SF2
40012 - 255/55R19 111W XL SC-SF2



AUDI Q7

40006 - 255/60R18 112V XL SC-SF2
40012 - 255/55R19 111W XL SC-SF2



ALFA ROMEO STELVIO

40000 - 235/65R17 108W XL SC-SF2
40001 - 235/60R18 107W XL SC-SF2
40008 - 235/55R19 105W XL SC-SF2
40015 - 255/45R20 105Y XL SC-SF2

HOMOLOGATED



VOLVO XC40 EV **ELECT**

40641 - 235/50R19 103H XL SC-SF2(VOL) elt
40640 - 255/45R19 104H XL SC-SF2(VOL) elt
40639 - 235/45R20 100H XL SC-SF2(VOL) elt
40638 - 255/40R20 101H XL SC-SF2(VOL) elt



SCORPION™ ALL SEASON SF2

OVERVIEW



HIGH LEVELS OF **SAFETY IN WET AND DRY CONDITIONS**
vs prev gen.



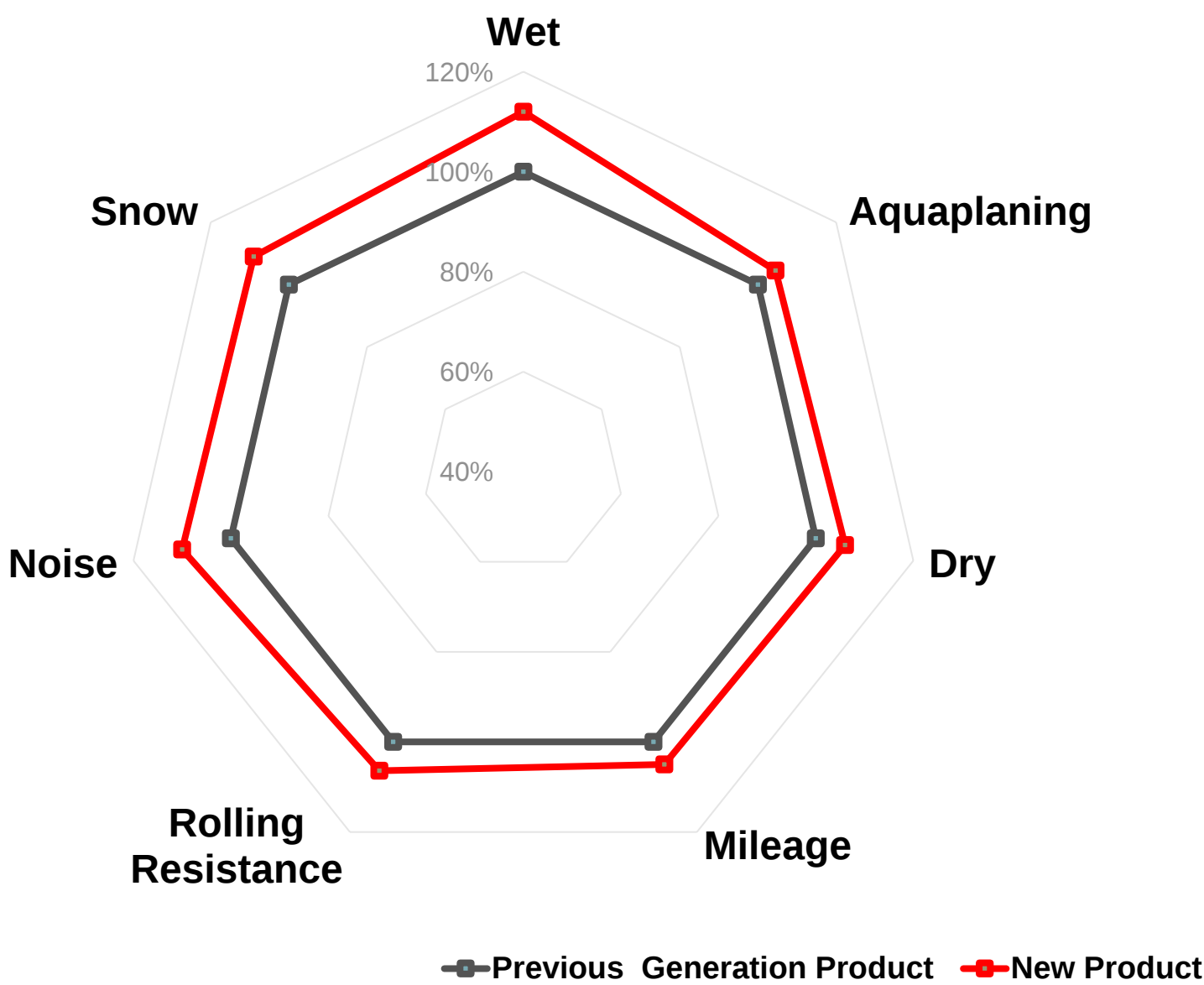
FOCUS ON **ROLLING RESISTANCE**
AND ON **WET GRIP**



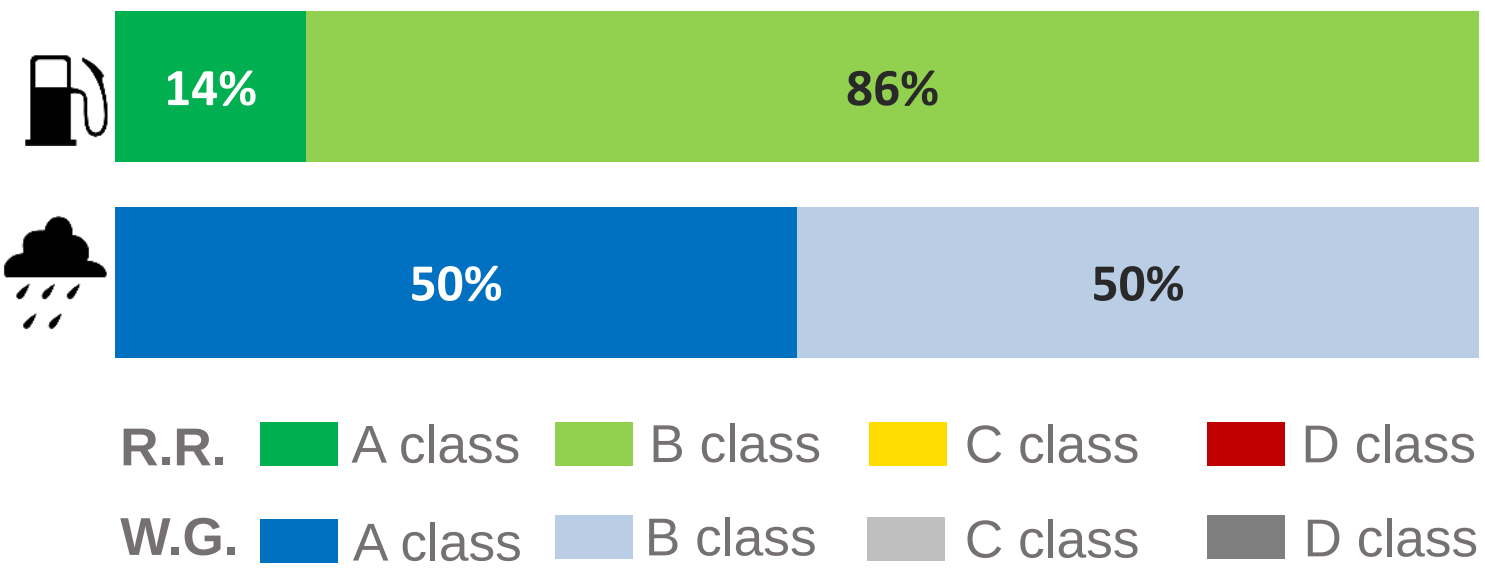
EXCELLENT **NOISE**
PERFORMANCE



STRONG IMPROVEMENT IN
SNOW PERFORMANCE
vs prev. gen.

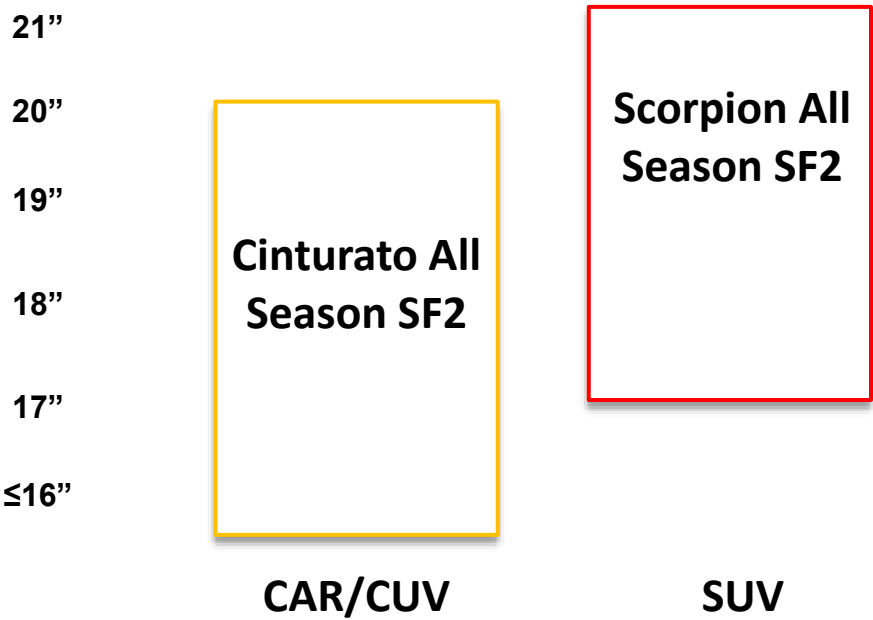


EXCELLENT EU LABEL



Estimantion based on Range @Jan Pricelist 2022. Run Flat sizes not included

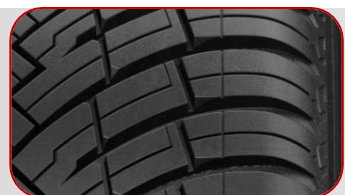
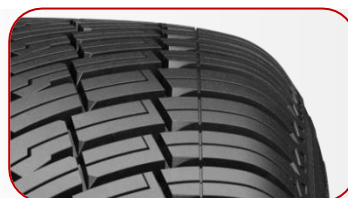
STRATEGIC POSITIONING





SCORPION™ ALL SEASON SF2

TECHNICAL FEATURES AND BENEFITS

FEATURE		ADVANTAGE	BENEFIT	
	"3D DIAMOND SIPES" on all the tread pattern	Optimized positioning and twist of the sipes. Deep sipes designed to grant long lasting performance	Improvement in wet&dry braking and snow performances. Increased mileage and more regular tread consumption	
TREAD PATTERN	INTERLOCKING V-SHAPED BLOCKS AND SUV STRUCTURE	Wider contact surface and balanced weight distribution	Excellent stability and handling	
	ZIG-ZAG CENTRAL GROOVE	Strong connections between grooves and better pressure distribution	Improved aquaplaning and wet handling	TREAD PATTERN
TREAD PATTERN	HORIZONTAL GROOVES LARGER ON THE EXTERIOR	More efficient water expulsion	Improved aquaplaning	
	HIGH PITCH SEQUENCE	More homogeneous surface contact with the road (82 pitches vs 68 of previous generation)	Improvement in noise, snow and aquaplaning	TREAD PATTERN
TREAD PATTERN	HIGH LAND/SEA RATIO	Wider contact surface with the road	Improvement in braking, handling and noise	
	NEW COMPOUND	New combination of advanced polymers for better performance in a wider temperature range vs. previous generation.	Strong improvement in wet & dry combined with excellent snow and RR performances	TREAD PATTERN
COMPOUND MATERIALS	MOULD-PATTERN SINERGY	Optimized footprint in different vehicle conditions	Improvement in braking, handling and noise	
MOULD-PATTERN				





SCORPION™ ALL SEASON SF2

RANGE AND FITMENTS

RIM	ROOT	IP	IP DESCRPTION	MAIN FITMENT/HOMOLOGATION
17	235/60R17	39999	235/60R17 106V XL SC-SF2	VOLVO XC 40 (2018) / Mercedes GLK (2008)
17	235/65R17	40000	235/65R17 108W XL SC-SF2	Discovery Sport (2014) / Evoque (2019) / Jaguar E-PACE (2017) / Q5 (2016) / GLC-GLC Coupè (2015-16) / Stelvio
17	265/65R17	41355	265/65R17 112H SC-SF2	Toyota Land Cruiser, Toyota Hylux, Mitsubishi Pajero
18	235/60R18	40001	235/60R18 107W XL SC-SF2	Discovery Sport (2014) / Evoque (2019) / Jaguar E-PACE (2017) / Q5 (2016) / GLC-GLC Coupè (2015-16) / Stelvio
18	235/60R18	40002	235/60R18 107W XL s-i SC-SF2 elt	VW ID.4 / Skoda Enyaq
18	235/65R18	40003	235/65R18 110H XL SC-SF2	Jaguar F-PACE (2016); VOLKSWAGEN Touareg (2018)
18	245/50R18	40022	245/50R18 100Y r-f SC-SF2	X3 / X4 (2010)
18	245/60R18	40004	245/60R18 109H XL SC-SF2	Jeep Grand Cherokee (2005)
18	255/55R18	40005	255/55R18 109Y XL SC-SF2	X5 (2013, 2018) / ML-Class (2015)
18	255/55R18	40021	255/55R18 109V XL r-f SC-SF2	X5,X6 (2013, 2018)
18	255/60R18	40006	255/60R18 112V XL SC-SF2	Touareg / Q7 / Jaguar F-PACE (2016) / LR Velar
18	265/60R18	40007	265/60R18 114V XL SC-SF2	Jeep Grand Cherokee (2010) / G-Class (2018)
19	235/50R19	40641	235/50R19 103H XL SC-SF2(VOL) elt	VOLVO XC40 (620D) F ; VOLVO XC40 COUPE (V317) F
19	235/55R19	40008	235/55R19 105W XL SC-SF2	XC90-XC60 (2015-17) / E-PACE (2017) / Evoque (2011) / Discovery Sport (2014) / Stelvio / Honda CR-V (2017) / Hyundai Santa Fe (2018)
19	235/55R19	40009	235/55R19 105W XL s-i SC-SF2 elt	VW ID.4 / Skoda Enyaq / Audi Q4 E-TRON (F)
19	255/45R19	40640	255/45R19 104H XL SC-SF2(VOL) elt	VOLVO XC40 (620D) R ; VOLVO XC40 COUPE (V317) R
19	255/50R19	40010	255/50R19 107Y XL SC-SF2	GLE (2018) / ML-Class (2015)
19	255/50R19	40011	255/50R19 107Y XL s-i SC-SF2 elt	VW ID.4 / Skoda Enyaq / Audi Q4 E-TRON (R)
19	255/50R19	40023	255/50R19 107W XL r-f SC-SF2	X5,X6 (2013, 2018)
19	255/55R19	40012	255/55R19 111W XL SC-SF2	Audi Q7 (2015) / Jaguar F-PACE (2016) / LR Velar
19	275/55R19	40013	275/55R19 111V SC-SF2	GLE (2018) / GLS (2019)
20	235/45R20	40639	235/45R20 100H XL SC-SF2(VOL) elt	VOLVO XC40 (620D) F ; VOLVO XC40 COUPE (V317) F
20	235/50R20	40114	235/50R20 104Y XL s-i SC-SF2 elt	VW ID.4 / Skoda Enyaq / Audi Q4 E-TRON (F)
20	245/45R20	40014	245/45R20 103V XL SC-SF2	Discovery Sport (2014) / Evoque (2011) / V90 (2016) / XC40 (2017)
20	255/40R20	40638	255/40R20 101H XL SC-SF2(VOL) elt	VOLVO XC40 (620D) R ; VOLVO XC40 COUPE (V317) R
20	255/45R20	40015	255/45R20 105Y XL SC-SF2	Audi Q5 (2016) / XC60 (2017) / GLC-GLC Coupè (2015-16) / Stelvio
20	255/45R20	40016	255/45R20 105Y XL s-i SC-SF2 elt	VW ID.4 / Skoda Enyaq / Audi Q4 E-TRON (R)
20	255/55R20	40017	255/55R20 110Y XL SC-SF2	Range Rover-Sport (2012-13) / Discovery (2017)
20	265/45R20	40018	265/45R20 108Y XL SC-SF2	ML-Class (2015) / GLE (2018)
20	275/40R20	40024	275/40R20 106W XL r-f SC-SF2	X5-X6 front (2007,2014)
20	275/45R20	40019	275/45R20 110Y XL SC-SF2	Touareg (2010) / VOLVO XC90 (2015)
20	315/35R20	40025	315/35R20 110W XL r-f SC-SF2	X5 / X6 rear (2007,2014)
21	275/45R21	40020	275/45R21 110Y XL SC-SF2	Range Rover-Sport (2012-13) / Discovery (2017)

Range @Jan Pricelist 2022. Homologated size.

(F): Front (R):Rear





SCORPION™
WINTER 2

NEW SCORPION™ WINTER 2

The **Scorpion™ Winter 2** is the Winter Specialist for High Performance SUV.
No compromise on **Safety** and **Performance** in winter conditions.

- Impressive **Snow Performance**
- Strong Improvement in **Mileage** and **Wet Performance** vs prev. gen.
- Excellent **Rolling Resistance** labels.



AVAILABLE IN ALL TECHNOLOGIES: **RUN FLAT**  **ELECT** **PNCS** 



SCORPION WINTER 2™
OVERVIEW

WIDE RANGE



EXCELLENT PERFORMANCE IN SNOW
CONDITIONS



OUTSTANDING ON WET AND
IN AQUAPLANING



LABEL IMPROVEMENT IN
ROLLING RESISTANCE TO
REDUCE FUEL
CONSUMPTION



HIGH MILEAGE AND BETTER
COMFORT

Focus:
≥18" segment
(SUV)

#lpcode	45
Width	225-315
Ratio	30-65
Rim	18"-23"
Speed	H-T-V-W
Rolling Res.	20% B – 80% C
Wet Grip	50% A – 50% B



EXCELLENT EU LABEL



R.R. A class B class C class D class
W.G. A class B class C class D class

Internal estimates based on range Gen '22 Pricelist

STRATEGIC POSITIONING

