

**FERODO®**

**BICYCLE**

CHOOSE THE POWER OF PERFORMANCE



2024



[www.ferodoracing.com](http://www.ferodoracing.com)

EN





## BIKE

### BRAKE PADS

TECHNICAL INFORMATION	2
TECHNICAL DRAWINGS	5
CROSS REFERENCES	10

### BRAKE DISCS

TECHNICAL INFORMATION	11
-----------------------	----

### BRAKE FLUIDS

13
----



## 125 YEARS OF BRAKING EXCELLENCE

Ferodo® is the premium braking brand and one of the global leaders in both the Original Equipment and aftermarket sectors for a wide range of vehicle types.

For over 125 years Ferodo has been synonymous with excellence and a continued commitment to innovation.

Ferodo now extends this experience and pedigree to the bicycle world. Pioneering research and development, bold engineering and extensive road and track testing ensure performance, safety and reliability.

## QUICK LOOK BENEFITS

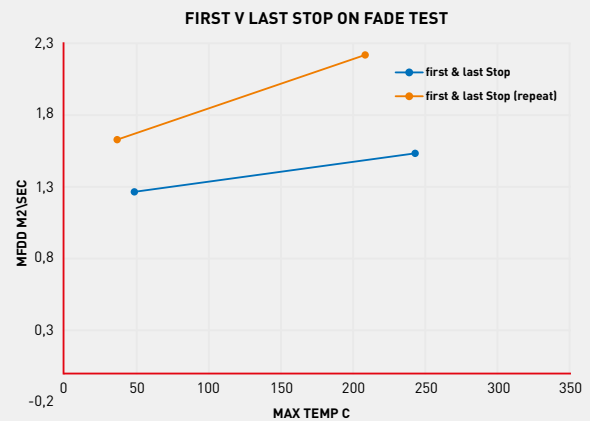
### DEVELOPED FROM THE LAB TO THE TRACK



Our numerous dynamometers can simulate any type of braking condition. From a tough mountain descent to E-Bike urban riding, we use them to measure objectively how the brakes perform.



Once we are confident that a material ticks all the boxes, we start bicycle testing. Our bikes are instrumented to measure multiple parameters such as deceleration, pressure, temperatures, and lever travel.



### ECE-R90 HOMOLOGATION



Our brake pad materials designated for road-use are **ECE R90 certified**.

This means that they have been tested by an authorised third-party testing center and have been judged to perform, in a series of defined tests, similarly to the original equipment pads.

### ENVIRONMENTAL COMMITMENT

- Our brake pads are manufactured in our Spanish friction plant to strict European standards concerning the choice of raw materials
- We reduce part consumption by placing a very high importance on product longevity
- We have developed our packaging to minimise the use of plastic

### QUALITY

Our Spanish brake pad production plant is **IATF 16949** certified and passes stringent audits to supply multiple high profile OEM automotive platforms.

**PAD COMPOUNDS**

Scale 1 to 5 (1=minimum)

	PAD LIFE	FRICTION LEVEL	FADE RESISTANCE	CONTROLLABILITY	COMFORT
<b>FE</b>	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
<b>FM</b>	★★★★★	★★★★★	★★★	★★★★★	★★★★★
<b>FR</b>	★★★	★★★★★	★★★★★	★★★★★	★★★★★
<b>FS</b>	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★

**LEGEND:** **Pad Life:** how long the pad lasts / **Friction level:** overall mean friction coefficient / **Fade Resistance:** resistance to drop-off in friction coefficient under severe braking conditions / **Controllability:** how easy the brake is to modulate / **Comfort:** the absence of brake squeal and other vibration generated during the braking event.



**FBP\*\*\*FE \ FBP\*\*\*FE-WS**

E-BIKE

- High performance resin formulation
- Developed to handle the higher braking loads of heavier bicycles
- ECE-R90 certified
- Precision engineering standards are applied to the backplates and the brake pad finishing



**FBP\*\*\*FM \ FBP\*\*\*FM-WS**

ALL-ROUND

- High performance resin formulation
- Described as an All-round compound as it is suitable for a wide range of applications
- It offers the comfort expected in leisure and road riding and the performance needed for lighter downhill descents.
- ECE-R90 certified
- Precision engineering standards are applied to the backplates and brake pad finishing



**FBP\*\*\*FR**

RACING

- Mid-metallic formulation using resin binding technology
- Specifically developed for heavy duty racing
- Offers the performance and fade resistance needed for heavy-duty downhill descents
- Precision engineering standards are applied to the backplates and brake pad finishing



**FBP\*\*\*FS**

ROAD

- High performance resin formulation
- Specifically developed for road use
- It offers high performance and zero noise during dry braking
- ECE-R90 certified
- Precision engineering standards are applied to the backplates and brake pad finishing



**FBP\*\*\*-WS**  
30 loose sets/box

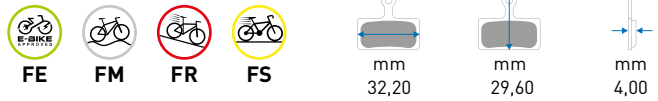
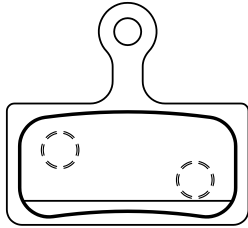


Sold in **boxes of 10 sets**





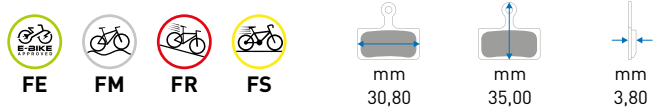
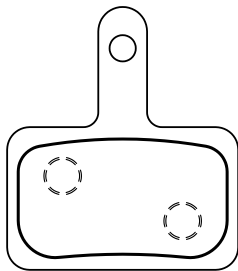
**FBP001**



BRAND	MODEL/COMPATIBILITY
<b>FSA</b>	AFTERBURNER: DB-TX-9150, K-FORCE DB-TX-9000
<b>REVER</b>	MCX1
<b>SHIMANO</b>	ALFINE: BR-S700, BR-S7000 / <b>BR-CX75 / BR-R515</b> DEORE: BR-M615, BR-M6000, BR-M6100 / <b>DEORE XT</b> : BR-M785, BR-M8000, BR-M8100 / <b>SLX</b> : BR-M666, BR-M675, BR-M7000 <b>SORA</b> : BR-R315 / <b>ULTEGRA</b> : BR-R785, BR-RS785 <b>XTR</b> : BR-M985, BR-M987, BR-M988, BR-M9000, BR-M9020

PART NUMBER	MATERIAL
<b>FBP001FE</b>	FE: E-Bike
<b>FBP001FE-WS</b>	FE-WS: E-Bike in bulk package of 30 sets
<b>FBP001FM</b>	FM: All-round
<b>FBP001FM-WS</b>	FM-WS: All-round in bulk package of 30 sets
<b>FBP001FR</b>	FR: Heavy duty racing
<b>FBP001FS</b>	FS: Road

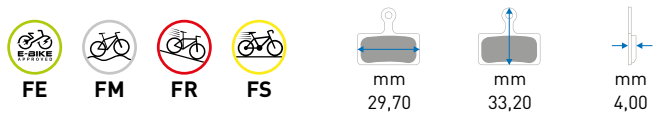
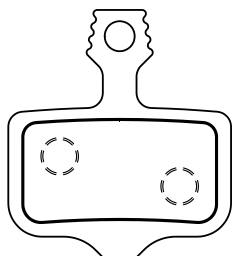
**FBP002**



BRAND	MODEL/COMPATIBILITY
<b>SHIMANO</b>	ACERA: BR-M415, BR-M416 / <b>ALIVIO</b> : BR-M395 / <b>ALTUS</b> : BR-M355, BR-M375 / <b>BR-MT200 / BR-MT400 / BR-MT500 / C600</b> : BR-C601 DEORE: BR-M445, BR-M446, BR-M447, BR-M465, BR-M475, BR-M485, BR-M486, BR-M495, BR-M505, BR-M506, BR-M515, BR-M525, BR-M575, BR-T615 / <b>LX</b> : BR-T675 / <b>SLX</b> : BR-M7000
<b>TEKTRO</b>	AURIGA / DRACO / HDC300 / ORION
<b>TRP</b>	DASH SPORT / HY/RD / HYLEX / SPYKE / SPYRE / SPYRE SLC

PART NUMBER	MATERIAL
<b>FBP002FE</b>	FE: E-Bike
<b>FBP002FE-WS</b>	FE-WS: E-Bike in bulk package of 30 sets
<b>FBP002FM</b>	FM: All Round
<b>FBP002FM-WS</b>	FM-WS: All Round in bulk package of 30 sets
<b>FBP002FR</b>	FR: Heavy duty racing
<b>FBP002FS</b>	FS: Road

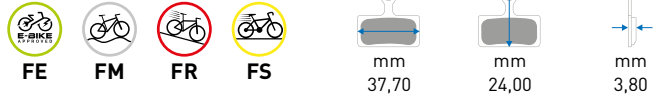
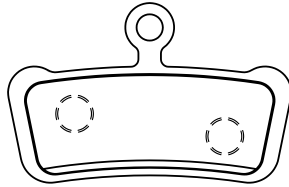
**FBP003**



BRAND	MODEL/COMPATIBILITY
<b>AVID</b>	ELIXIR 1 / ELIXIR 3 / ELIXIR 5 / ELIXIR7 ELIXIR X0 / ELIXIR XX
<b>BRAKING</b>	INCAS
<b>SRAM</b>	DB SERIES / DB / FORCE AXS / RED AXS / RIVAL AXS X SERIE / X0 / X7 / X9 / XX

PART NUMBER	MATERIAL
<b>FBP003FE</b>	FE: E-Bike
<b>FBP003FM</b>	FM: All-round
<b>FBP003FM-WS</b>	FM-WS: All-round in bulk package of 30 sets
<b>FBP003FR</b>	FR: Heavy duty racing
<b>FBP003FS</b>	FS: Road

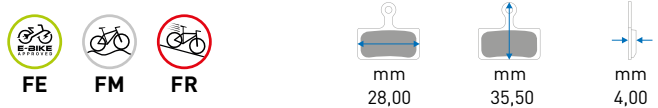
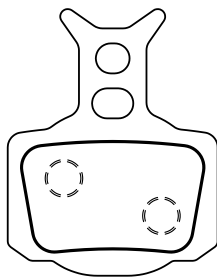
**FBP004**



BRAND	MODEL/COMPATIBILITY
<b>AVID</b>	7 TRAIL / 9 TRAIL / XO TRAIL
<b>SRAM</b>	G2 / GUIDE R / GUIDE RS / GUIDE RSC / GUIDE ULTIMATE

PART NUMBER	MATERIAL
<b>FBP004FE</b>	FE: E-Bike
<b>FBP004FM</b>	FM: All Round
<b>FBP004FM-WS</b>	FM-WS: All Round in bulk package of 30 sets
<b>FBP004FR</b>	FR: Heavy duty racing
<b>FBP004FS</b>	FS: Road

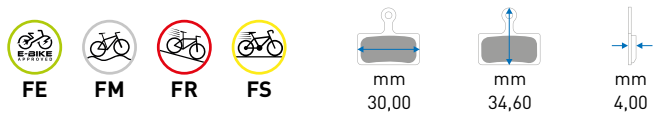
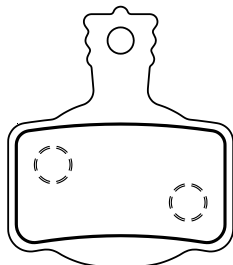
**FBP005**



BRAND	MODEL/COMPATIBILITY
<b>FORMULA</b>	C1 / CR3 / CURA / CURA X / MEGA / R1 / R1 RACING / RO / RO RACING / RR1 / RX / T1 / T1 RACING / THE ONE

PART NUMBER	MATERIAL
<b>FBP005FE</b>	FE: E-Bike
<b>FBP005FM</b>	FM: All Round
<b>FBP005FR</b>	FR: Heavy duty racing

**FBP006**

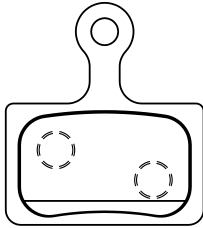


BRAND	MODEL/COMPATIBILITY
<b>CAMPAGNOLO</b>	CHORUS / EKAR / H11 / POTENZA / RECORD / SUPER RECORD
<b>MAGURA</b>	MT2 / MT4 / MT6 / MT8 / MTS

PART NUMBER	MATERIAL
<b>FBP006FE</b>	FE: E-Bike
<b>FBP006FM</b>	FM: All Round
<b>FBP006FM-WS</b>	FM-WS: All Round in bulk package of 30 sets
<b>FBP006FR</b>	FR: Heavy duty racing
<b>FBP006FS</b>	FS: Road



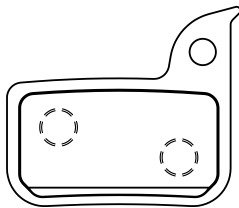
**FBP009**



BRAND	MODEL/COMPATIBILITY
<b>SHIMANO</b>	105: BR-R7070, BR-R7170, BR-RS505 / BR-RS305 DEORE XT: BR-M8110 / DURA-ACE: BR-R9170, BR-R9270 GRX: BR-RX400, BR-RX810 / SLX: BR-M7110 TIAGRA: BR-4770, BR-RS405 / ULTEGRA: BR-RS805, BR-R8070, BR-R8170 / XTR: BR-M9100 (2p.), BR-M9110

PART NUMBER	MATERIAL
<b>FBP009FE</b>	FE: E-Bike
<b>FBP009FM</b>	FM: All-round
<b>FBP009FM-WS</b>	FM-WS: All-round in bulk package of 30 sets
<b>FBP009FS</b>	FS: Road

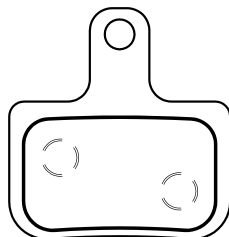
**FBP010**



BRAND	MODEL/COMPATIBILITY
<b>SRAM</b>	APEX / ETAP HRD / FORCE / HRD / LEVEL TLM (--->2018) / LEVEL ULTIMATE (--->2018) / RED 22 / RIVAL

PART NUMBER	MATERIAL
<b>FBP010FE</b>	FE: E-Bike
<b>FBP010FM</b>	FM: All-round
<b>FBP010FM-WS</b>	FM-WS: All-round in bulk package of 30 sets
<b>FBP010FR</b>	FR: Heavy duty racing
<b>FBP010FS</b>	FS: Road

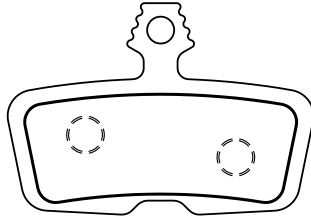
**FBP011**



BRAND	MODEL/COMPATIBILITY
<b>SRAM</b>	LEVEL / T & TL / TLM & ULTIMATE (2019-->)

PART NUMBER	MATERIAL
<b>FBP011FE</b>	FE: E-Bike
<b>FBP011FM</b>	FM: All Round
<b>FBP011FS</b>	FS: Road

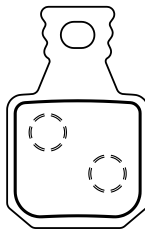
**FBP012**



BRAND	MODEL/COMPATIBILITY
<b>AVID</b>	CODE (2011-2014) / CODE R
<b>SRAM</b>	CODE R (2018-->) / CODE RSC (2018-->) / DB8 / GUIDE RE

PART NUMBER	MATERIAL
<b>FBP012FE</b>	FE: E-Bike
<b>FBP012FM</b>	FM: All Round
<b>FBP012FR</b>	FR: Heavy duty racing

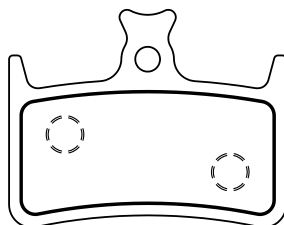
**FBP013**



BRAND	MODEL/COMPATIBILITY
<b>MAGURA</b>	MT5 / MT5E / MT5ESTOP / MT7 / MT TRAIL FRONT

PART NUMBER	MATERIAL
<b>FBP013FE</b>	FE: E-Bike
<b>FBP013FM</b>	FM: All Round
<b>FBP013FR</b>	FR: Heavy duty racing

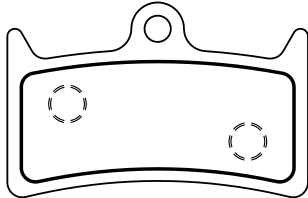
**FBP016**



BRAND	MODEL/COMPATIBILITY
<b>HOPE</b>	E4 / RX4 SHIMANO / STEALTH RACE E4 / TECH M4

PART NUMBER	MATERIAL
<b>FBP016FE</b>	FE: E-Bike
<b>FBP016FM</b>	FM: All Round
<b>FBP016FR</b>	FR: Heavy duty racing
<b>FBP016FS</b>	FS: Road

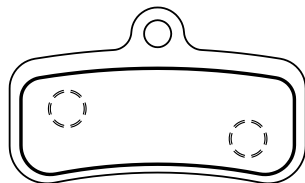
**FBP017**



BRAND	MODEL/COMPATIBILITY
HOPE	V4
TRICKSTUFF	MAXIMA

PART NUMBER	MATERIAL
FBP017FE	FE: E-Bike
FBP017FM	FM: All Round
FBP017FR	FR: Heavy duty racing

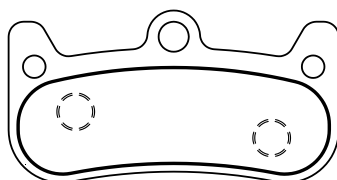
**FBP018**



BRAND	MODEL/COMPATIBILITY
SHIMANO	BR-MT520 / DEORE XT: BR-M8020 / SAINT: BR-M810, BR-M820 / XTR: BR-M9120 / ZEE: BR-M640
TEKTRO	HD-M725 / HD-M735 / HD-M745 / HD-M750
TRP	QUADIEM / QUADIEM SL / SLATE T4

PART NUMBER	MATERIAL
FBP018FE	FE: E-Bike
FBP018FE-WS	FE-WS: E-Bike in bulk package of 30 sets
FBP018FM	FM: All Round
FBP018FM-WS	FM-WS: All Round in bulk package of 30 sets
FBP018FR	FR: Heavy duty racing

**FBP019**

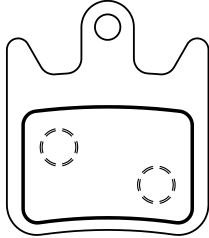


BRAND	MODEL/COMPATIBILITY
FORMULA	CURA 4

PART NUMBER	MATERIAL
FBP019FE	FE: E-Bike
FBP019FM	FM: All Round
FBP019FM-WS	FM-WS: All Round in bulk package of 30 sets
FBP019FR	FR: Heavy duty racing



**FBP036**



BRAND	MODEL/COMPATIBILITY
HOPE X2	X2 / XCR

PART NUMBER	MATERIAL
<b>FBP036FE</b>	FE: E-Bike
<b>FBP036FM</b>	FM: All Round

**CROSS REFERENCES**

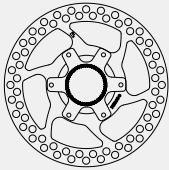
FERODO	GALFER	BRENTA	SWISSSTOP	MOTO MASTER	EBC	ALLIGATOR
<b>FBP001</b>	FD452	122	DISC 28	4	CFA614	52 516 0353
<b>FBP002</b>	FD293	109	DISC 15	2	CFA327	52 516 0073
<b>FBP003</b>	FD427	120	DISC 26	6	CFA472	52 516 0223
<b>FBP004</b>	FD459	225 EBIKE		8	CFA633	52 516 0393
<b>FBP005</b>	FD451	119	DISC25	7		525160473
<b>FBP006</b>	FD436	124	DISC 30	9	CFA619	52 516 0343
<b>FBP009</b>	FD496	128		18	CFA734	52 516 0463
<b>FBP010</b>	FD469	126	DISC 32	17	CFA667	52 516 0433
<b>FBP011</b>	FD513	130	DISC 35			52 516 0483
<b>FBP012</b>	FD455	123	DISC 29	13	CFA616	525160383
<b>FBP013</b>	FD487	127	DISC 33	12	CFA660/4	525160441
<b>FBP016</b>	FD465	132		16	CFA647	
<b>FBP017</b>	FD466			20	CFA639	
<b>FBP018</b>	FD426		DISC 27	3	CFA493	52 516 0323
<b>FBP019</b>	FD531			42	CFA735	52 516 0473
<b>FBP036</b>	FD467			40	CFA 487	52 516 040

**CENTER-LOCK \ FBD\*\*\*\*CL**

- Braking band manufactured in AISI420 high carbon steel for performance and durability
- Tempered throughout the material's thickness to ensure a minimum surface hardness of HRC35 throughout the disc's life
- Compatible with all brake pad types
- Center-lock made in Anodized Aluminium for reduced weight

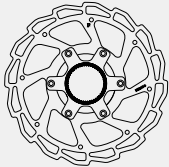
**AVAILABLE DESIGNS:**

■ **TZ-22 DESIGN**



- Engineered to optimise the aerodynamic properties of the disc

■ **TZ-23 DESIGN**



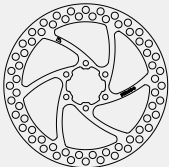
- Braking band design balances performance, modulation capability and weight
- Engineered to expel dirt which keeps the pad contact area clean in muddy conditions. This means a more consistent braking efficiency across all conditions
- Air flow maximized to increase cooling and reduce the pad and disc operating temperatures

**6-HOLES \ 4-HOLES FBD\*\*\*\*R**

- Braking band manufactured in AISI420 high carbon steel for performance and durability
- Tempered throughout the material's thickness to ensure a minimum surface hardness of HRC35 throughout the disc's life
- Compatible with all brake pad types

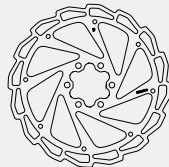
**AVAILABLE DESIGNS:**

**TZ-22 DESIGN / 6-HOLES**



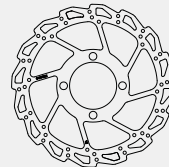
- Engineered to optimise the aerodynamic properties of the disc

**TZ-23 DESIGN / 6-HOLES**



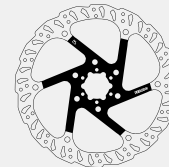
- Braking band design balances performance, modulation capability and weight
- Engineered to expel dirt which keeps the pad contact area clean in muddy conditions. This means a more consistent braking efficiency across all conditions
- Air flow maximized to increase cooling and reduce the pad and disc operating temperatures

**TZ-23 DESIGN / 4-HOLES**

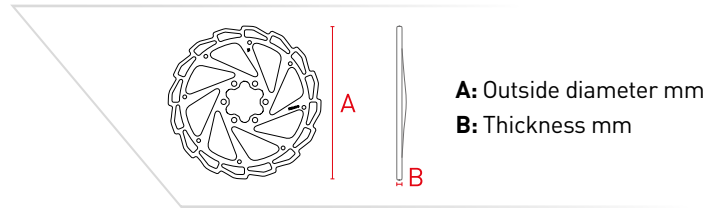


- Braking band design balances performance, modulation capability and weight
- Engineered to expel dirt which keeps the pad contact area clean in muddy conditions. This means a more consistent braking efficiency across all conditions
- Air flow maximized to increase cooling and reduce the pad and disc operating temperatures

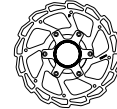
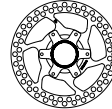
**TZ-24 DESIGN / 6-HOLES**



- Braking band design balances performance, modulation capability and weight
- Engineered to perform consistently during heavy-duty braking use
- Used in MTB World Cup downhill racing

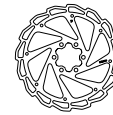
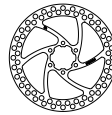


**CENTER-LOCK \ FBD\*\*\*\*CL**



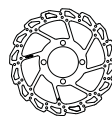
A - OUTSIDE DIAMETER mm	B - THICKNESS mm	TZ-22 DESIGN PART NUMBER	TZ-23 DESIGN PART NUMBER
140	1,8	FBD0014CL	FBD0001CL
160	1,8	FBD0012CL	FBD0002CL
180	1,8		FBD0003CL
180	2,0		FBD0004CL
203	2,0		FBD0005CL

**6-HOLES \ FBD\*\*\*\*R**



A - OUTSIDE DIAMETER mm	B - THICKNESS mm	TZ-22 DESIGN PART NUMBER	TZ-23 DESIGN PART NUMBER	TZ-24 DESIGN PART NUMBER
140	1,8	FBD0015R	FBD0006R	FBD0016R
160	1,8	FBD0013R	FBD0007R	FBD0017R
180	1,8		FBD0008R	
180	2,0		FBD0009R	FBD0018R
180	2,3		FBD0501R	
203	2,0		FBD0010R	FBD0019R
220	2,0		FBD0011R	FBD0020R

**4-HOLES \ FBD\*\*\*\*R**



A - OUTSIDE DIAMETER mm	B - THICKNESS mm	TZ-23 DESIGN PART NUMBER
180	2,3	FBD0502R
203	2,3	FBD0503R



Ferodo **brake fluids** are of Glycol-ether based composition. FBZ (DOT5.1) is suitable for general all-round use, while FSF (Superformula) has been developed for heavy duty braking and so is the ideal solution for downhill racing.

**Warning:** as these brake fluids are glycol-ether based composition, they should never be mixed with mineral oil brake fluids.

## FBZ (DOT 5.1)



### RECOMMENDED FOR GENERAL ALL-ROUND USE

**WARNING:** As this is a glycol-ether based composition it should never be mixed with mineral oil brake fluids.

#### TECHNICAL DETAILS:

- Dry boiling point: 270 °C
- Wet boiling point: 185 °C
- Kinematic viscosity (Cst): 800 at -40 °C

#### MAIN FEATURES:

- Adheres to DOT 5.1 specification
- Very low viscosity means ideally suited for ABS / ESP braking systems
- Low corrosion
- Very low rubber swell
- Sizes available: FBZ025 (250 ml), FBZ050 (500 ml), FBZ100 (1 L), FBZ500 (5 L)

## FSF (SUPERFORMULA, DOT RATED)



### RECOMMENDED FOR RACE USE

**WARNING:** As this is a glycol-ether based composition it should never be mixed with mineral oil brake fluids.

#### TECHNICAL DETAILS:

- Dry boiling point: 328 °C
- Wet boiling point: 200 °C
- Kinematic viscosity (Cst): 1500 at -40 °C

#### MAIN FEATURES:

- Premium Product
- Exceptionally high wet and dry boiling points
- Very low corrosion, with additives to render more compatible with Mg components
- Low rubber swell
- Super-low viscosity for a race fluid of such high B.pt. (falls within DOT 4 road spec allowing road use)
- Super high lubricity: reduces clutch component wear
- Size available: FSF050 (500 ml)











**FERODO®**

E-CAT



**FEDERAL-MOGUL ITALY Srl**  
Racing & Motorcycle Division

Corso Inghilterra, 2  
12084 Mondovì (CN) ITALY

