



# TECHNOLOGY & PRODUCT

---

**FARM HARD**  
**Firestone**



NOT ALL

# TECH JOBS

ARE DONE

# IN CUBICLES.

This is a business in which the important decisions are made in the field. Where the work gets done in the dirt. But the truth is, farming is an industry that's as high-tech as you can get. And if you don't adapt, you get left behind. That applies to the equipment you ride on. And to the tires your equipment rides on, too.

Advanced Deflection Design (AD2™) technology is just the sort of innovation that modern farming is built on. AD2 tires are engineered to connect land and equipment in a way they've never been connected before. And to help you get the job done with as little downtime as possible.

No matter what you use it for, AD2 technology is how you stay ahead in an ever-changing field.



## AD2: ALL OF THE ABOVE.

If you're looking for a farm tire that reflects the latest in traction technology, there are a few things you've got to insist on. Can it carry heavier loads at both high and low pressure? Does it give you strong traction that's gentle enough not to compact your soil? And most importantly, will it improve your performance?

Firestone AD2 tires check off every box. Their larger footprint gives deeper tread in challenging conditions, but not at the expense of your soil. They can carry up to 40 percent more load at the same pressure as traditional radial tires. And they're engineered to reduce fuel consumption.

There's one other key advantage to AD2 technology: It has applications across agriculture. So whether you're driving tractors, sprayers, implements, or combines and grain carts, the AD2 edge can be yours.

# MORE LOAD, BIGGER FOOTPRINT, ADDED PERFORMANCE.

AD2 technology is part of a new class of farm tires that can help improve the productivity of today's heavier equipment.

- **IF- and VF-designated tires can carry more load (up to 20% and 40%, respectively)** at the same pressure.\*
- **Reduced soil compaction** - increased deflection may result in a larger footprint.
- **Improved traction** - AD2 technology means less time in the field and reduced fuel consumption.\*
- **Improved ride** - a benefit of increased sidewall deflection.

\*Compared to standard equivalent-sized Firestone radial tires.

## ADDED PERFORMANCE, MORE PRODUCTIVITY.

### TRACTORS

Designed specifically for modern high-horsepower machines, AD<sup>2</sup> tires deliver not only superior traction, but also a smoother ride and less soil compaction. That's in addition to a greater load-carrying capacity than standard radial tires of equivalent size. And since they're available in a wide range of tread bar options, you can order a tractor tire that's suited to your operation.

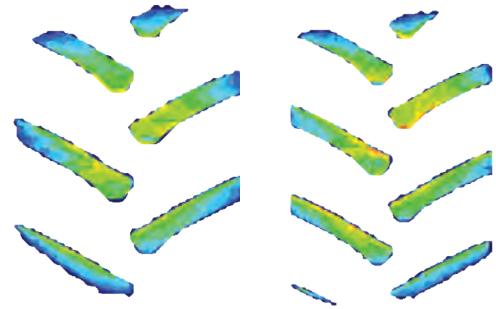
### SPRAYERS

The wider tread bars of AD<sup>2</sup> sprayer tires accommodate heavier machinery and help reduce soil compaction. They're also rated for 40 mph, so they help you get the job done faster.

### IMPLEMENTS

Advanced but rugged, Firestone AD<sup>2</sup> implement tires provide better wear and longer life — a must for heavier equipment. Additionally, state-of-the-art tread patterns help keep soil compaction to a minimum while delivering solid traction.

## TEKSCAN FOOTPRINT COMPARISON



**STANDARD RADIAL**  
480/80R50 Radial Deep  
Tread 23" 9650 lbs. @ 35 psi

**VF RADIAL**  
VF480/80R50 Radial Deep  
Tread 23" 13600 lbs. @ 35 psi

Firestone tires with AD<sup>2</sup> technology can carry a given load at a lower pressure than standard equivalent-sized radial tires. Lower pressure gives these tires a larger footprint and helps reduce soil compaction.

### HARVEST

Firestone Cyclical Field Operation (CFO) tires with AD<sup>2</sup> technology offer clear advantages for heavy equipment such as combines and grain carts. Available in a number of tread designs, these tires offer reliable traction with minimal soil disturbance. And thanks to their durable construction, they can stand up to extreme load cycles during harvest.



## MORE LOAD, LESS TIME IN THE FIELD, GREATER FUEL SAVINGS.\*

AD<sup>2</sup> technology is part of a new class of farm tires that can help improve the productivity of today's higher-horsepower tractors. AD<sup>2</sup> technology helps transfer the horsepower to the ground and helps carry the additional load.

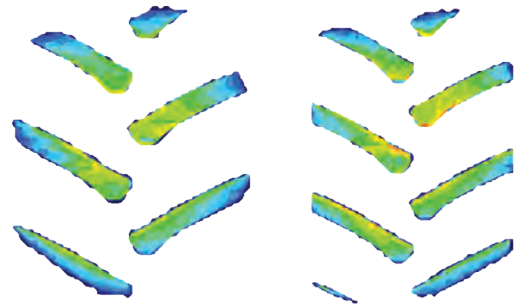
---

### WE PUT MORE INTO OUR TIRES SO YOU GET MORE OUT OF THEM.

Firestone farm tires with AD<sup>2</sup> technology deliver the performance you want with the service and warranty you need. Visit your Certified Firestone Farm Tire Dealer and see for yourself.

- **Proven Firestone tire tread bar design options.**
- **The Certified Firestone Farm Tire Dealer** – specially trained and equipped to handle your in-field service needs.
- **The Firestone Farm Tire Warranty** – one of the best warranties in the farm tire business.
- **Extensive testing for durability and performance** at the Firestone Farm Tire Test Center in Columbiana, Ohio – the only farm tire test facility of its kind in the world.

### TEKSCAN FOOTPRINT COMPARISON



**STANDARD RADIAL**  
480/80R50 Radial Deep  
Tread 23" 9650 lbs. @ 35 psi

**VF RADIAL**  
VF480/80R50 Radial Deep  
Tread 23" 13600 lbs. @ 35 psi

---

VF tractor tires can carry a given load at a lower pressure than standard equivalent-sized radial tractor tires. Lower pressure gives these tires a larger footprint and helps reduce soil compaction.

---

\*Compared to standard equivalent-sized Firestone radial tires.



TRACTOR



TUBELESS					
Tire Size	Material Number	Load Index	Speed Symbol Rating	Design Rim Width (in.)	Overall Width (in.)

#### RADIAL DEEP TREAD 23° - R-1W

IF800/70R38	378-746	179	B	27.00	31.70
IF480/80R46	004-451	164	B	16.00	19.50
IF520/85R46	378-610	165	B	18.00	20.90
IF480/80R50	374-496	166	B	15.00	19.10
IF480/95R50	375-635	165	B	15.00	19.90
VF 80/85R42CFO	7123	183	B	20.00	24.30
VF480/80R46	9134	169	B	16.00	19.50
VF520/85R46	8680	170	B	18.00	21.50
VF480/80R50	7493	171	B	16.00	19.60
VF480/95R50	7494	170	B	16.00	20.10

#### RADIAL ALL TRACTION DT - R-1W

VF620/75R26	001-603	172	B	20.00	24.50
VF750/65R26	000-556	177	B	25.00	30.30
IF420/90R30	004-450	151	B	14.00	17.80
IF600/70R30	375-703	159	B	20.00	24.40
IF620/75R30	377-539	164	D	21.00	24.60
IF420/85R34	374-513	152	B	14.00	16.30
IF580/80R34	381-585	172	B	20.00	23.50
IF380/80R38	378-627	149	B	12.00	15.30
IF420/85R38	378-882	153	B	14.00	16.70
IF710/70R38	378-219	178	B	25.00	29.60
IF710/70R42CFO	004-592	179	B	25.00	29.40
IF710/75R42	378-542	181	B	25.00	30.50
VF420/85R34	8686	157	B	14.00	17.10
VF380/80R38	8658	154	B	12.00	15.20
VF380/95R38	908	154	B	13.00	15.10

#### RADIAL ALL TRACTION 23° - R-1

IF520/85R34	380-395	168	B	18.00	21.30
IF420/80R46	000-558	167	B	13.00	15.80

TUBELESS						
Overall Diameter (in.)	Static Loaded Radius (in.)	Rolling Circum. (in.)	Bar Height 32nds	Bar Height (in.)	Flat Plate (sq. in.)	Max. Load & Inflation (lbs. @ psi)

#### RADIAL DEEP TREAD 23° - R-1W

80.20	34.40	243	74	2.31	686	17100 @ 23
77.50	36.80	242	63	1.97	431	11000 @ 35
80.80	35.50	242	69	2.16	562	11400 @ 23
80.60	36.80	243	63	1.97	431	11700 @ 35
85.90	38.10	258	65	2.03	465	11400 @ 23
81.00	35.60	242	72	2.25	561	19300 @ 41
77.50	34.90	232	63	1.97	443	12800 @ 35
79.90	34.90	242	69	2.16	572	13200 @ 23
80.60	36.14	242	63	1.97	461	13600 @ 35
85.50	37.76	256	52	1.63	505	13200 @ 23

#### RADIAL ALL TRACTION DT - R-1W

62.10	26.60	184	66	2.06	476	13900 @ 35
64.00	27.40	190	67	2.09	534	16100 @ 35
59.00	25.90	178	62	1.94	288	7600 @ 29
62.60	27.20	187	64	2.00	425	9650 @ 29
66.60	28.40	198	67	2.09	403	11000 @ 23
62.40	28.00	187	59	1.84	283	7850 @ 35
70.00	31.20	209	73	2.28	415	13900 @ 29
62.80	28.80	187	57	1.78	230	6950 @ 35
66.10	29.70	198	59	1.84	297	8050 @ 29
76.20	33.60	227	74	2.31	580	16500 @ 35
80.20	35.30	240	74	2.31	590	17100 @ 35
84.40	37.40	253	77	2.41	672	18200 @ 35
62.00	27.10	185	59	1.84	318	9100 @ 23
62.20	28.20	186	57	1.78	258	8250 @ 35
66.40	29.60	199	56	1.75	300	8250 @ 23

#### RADIAL ALL TRACTION 23° - R-1

69.00	30.00	202	52	1.63	336	12300 @ 41
72.30	33.20	218	49	1.53	303	12000 @ 58



# SPRAYER

## SPRAYER TIRES WITH AD<sub>2</sub><sup>™</sup> TECHNOLOGY:

**Designed, engineered and built for today's agriculture.**

Firestone sprayer tires with Advanced Deflection Design (AD<sub>2</sub>) technology are engineered to deliver a new level of performance and productivity for high-volume equipment.

Available in both IF and VF designations, Firestone sprayer tires with AD<sub>2</sub> technology are engineered to carry a given load at a lower pressure than conventional radial sprayer tires. They also feature an application-specific tread design that includes wider bars for less compaction, a curved design for a smoother ride and deeper R-1W tread bars for longer wear.

Along with added performance in the field, they are rated for faster speeds on the road. That means the Firestone AD<sub>2</sub> sprayer tires can help you get more done in less time than standard sprayer tires.



## TIRES SPECIFICALLY DESIGNED FOR HIGH-CLEARANCE, HIGH-VOLUME SPRAYERS.

Firestone sprayer tires with AD<sup>2</sup> technology were designed from the ground up to meet the unique needs of crop protection and fertilizer applicators. Our sprayer-specific tire and tread design deliver added performance benefits compared to equivalent-sized standard radial tires:

- IF- and VF-designated tires can carry more load (up to 20% and 40%, respectively) at the same pressure,\* or
- They can carry the same load at a lower pressure\*

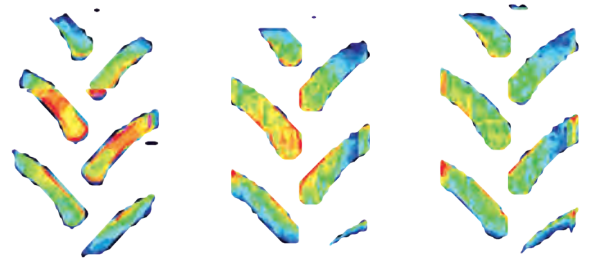
- Wider tread bars for improved distribution of ground pressure from the bar face
- Curved bar design for a smoother ride
- Reduced soil compaction
- Improved traction
- Rated up to 40 mph
- 20% deeper R-1W tread bars for longer wear and added performance in wet soils

### RADIAL ALL TRACTION RC-R-1W

TUBELESS						
Tire Size	Material Number	Load Index	Speed Symbol Rating	Design Rim Width (in.)	Overall Width (in.)	Overall Diameter (in.)
IF380/90R46	000-629	168	D	13.00	15.70	73.30
VF380/90R46	380-412	173	D	13.00	15.70	73.30
IF380/105R50	000-905	177	D	13.00	15.90	80.70
VF380/105R50	380-429	179	D	13.00	16.20	80.70

TUBELESS					
Static Loaded Radius (in.)	Rolling Circum. (in.)	Bar Height 32nds	Bar Height (in.)	Flat Plate (sq. in.)	Max. Load & Inflation (lbs. @ psi)
33.70	220	57	1.78	273	12300 @ 64
33.40	220	57	1.78	303	14300 @ 64
37.30	244	59	1.84	327	16100 @ 70
37.30	244	59	1.84	327	17100 @ 64

### TEKSCAN FOOTPRINT COMPARISON



**STANDARD RADIAL**  
380/90R46  
Radial 9000  
10500 lbs. @ 64 psi

**IF RADIAL**  
IF380/90R46  
Radial All Traction RC  
12300 lbs. @ 64 psi

**VF RADIAL**  
VF380/90R46  
Radial All Traction RC  
12300 lbs. @ 49 psi

Both IF and VF sprayer tires can carry given loads at a lower pressure than standard equivalent-sized radial sprayer tires. Lower pressure gives these tires a larger footprint and helps reduce soil compaction.

\*Compared to standard equivalent-sized Firestone radial sprayer tires.



# HARVEST

## **CFO HARVEST TIRES WITH AD<sup>2</sup>™ TECHNOLOGY:**

**Designed, engineered and built for  
today's harvest equipment.**

Firestone CFO harvest tires with Advanced Deflection Design (AD<sup>2</sup>) technology represent the “next generation” of performance and productivity for harvest equipment – tires specifically designed for the exceptional demands of combines and grain carts.

CFO stands for Cyclical Field Operation. It means these tires can carry more load than equivalent-sized conventional radial tires and are engineered for the extreme load cycles that are part of the harvest season.

It means you can get more work done in less time and with less soil compaction than standard radial tires.\*

\*Compared to standard equivalent-sized Firestone radial harvest tires.

## SPECIFICALLY DESIGNED FOR HARVEST EQUIPMENT.

Firestone CFO harvest tires with AD<sup>2</sup> technology were built from the ground up to meet your harvest equipment needs. Our harvest-specific tire and tread design delivers added performance benefits compared to equivalent-sized standard radial tires:

- IF tires can carry up to 20% and VF tires can carry 40% more load at the same pressure, or
- They carry the same load at a lower pressure\*
- During cyclical service, IF/CFO will carry 55% additional load without a change in inflation pressure.\*\*

TUBELESS					
Tire Size	Material Number	Load Index	Speed Symbol Rating	Design Rim Width (in.)	Overall Width (in.)
<b>RADIAL ALL NON-SKID (ANS) - R-3</b>					
IF800/60R32CFO	000-911	181	B	27.00	33.10
<b>RADIAL ALL TRACTION 23° - R-1</b>					
IF900/60R32CFO	000-903	182	B	30.00	36.80
IF900/60R32CFO	003-149	188	B	30.00	37.00
IF520/85R42CFO	000-560	169	B	18.00	22.00
<b>RADIAL DEEP TREAD 23° - R-1W</b>					
IF1250/50R32CFO	380-446	201	B	44.00	50.60
IF800/70R38CFO	000-928	184	B	27.00	33.20
IF800/70R38CFO	003-144	187	B	27.00	33.00
IF520/85R42CFO	000-921	169	B	18.00	22.40
IF580/85R42CFO	003-148	178	B	20.00	23.90
VF580/85R42CFO	007-123	183	B	20.00	23.90
<b>RADIAL CHAMPION SPADE GRIP R-2</b>					
IF520/85R42CFO	003-170	169	B	18.00	22.50

TUBELESS						
Overall Diameter (in.)	Static Loaded Radius (in.)	Rolling Circum. (in.)	Bar Height 32nds	Bar Height (in.)	Flat Plate (sq. in.)	Max. Load & Inflation (lbs. @ psi)
<b>RADIAL ALL NON-SKID (ANS) - R-3</b>						
69.60	30.7	210	37	1.16	477	18200 @ 46
<b>RADIAL ALL TRACTION 23° - R-1</b>						
74.60	32.9	226	61	1.91	625	18700 @ 35
75.60	33.2	226	61	1.91	625	22000 @ 46
76.50	34.4	228	52	1.63	1086	12800 @ 35
<b>RADIAL DEEP TREAD 23° - R-1W</b>						
82.50	34.9	240	74	2.31	687	32000 @ 46
80.20	36.6	243	74	2.31	452	19800 @ 35
81.10	35.85	243	74	2.31	697	21500 @ 41
76.30	34.4	228	69	2.16	452	12800 @ 35
80.90	36.6	243	72	2.25	450	16500 @ 41
80.90	36.6	241	72	2.25	450	19300 @ 41
<b>RADIAL CHAMPION SPADE GRIP R-2</b>						
77.40	34.90	230	105	3.28	470	12800 @ 35

### CFO TEKSCAN FOOTPRINT



**IF CFO RADIAL**  
IF1250/50R32CFO Deep  
Tread 23° 34100 lbs. @ 23 psi

IF CFO harvest tires can carry a given load at a lower pressure than standard equivalent-sized radial harvest tires. Lower pressure gives these tires a larger footprint and helps reduce soil compaction.

\*Compared to standard radial tires.

\*\*Max speed 10mph on combines and max speed 20mph on grain cart with a max distance traveled 1 mile. Unloading is to occur before off-field transport.

## **TIRES COVERED**

This Limited Warranty covers all original-tread Firestone brand radial agricultural tires, including “Destination Farm” and “Destination Turf” tires but excluding “Performer EVO” tires, purchased or manufactured after June 1, 2018 (except tires made for or used in pulling contests), if they are used in normal agricultural service. It does not cover tires marked “NO ADJ” or “NA” (non-adjustable), or tires not containing the Firestone serial number. Tires branded DT (damaged tire) are not adjustable for appearance. Tires are adjustable for ride-related conditions only during the first six months of service and up to 1/32nd of an inch of tread wear.

## **WHAT IS WARRANTIED**

If, before wearing down to 2/32nds of an inch of tread or bar depth remaining, any tire covered by this Limited Warranty becomes unusable for any reason within the manufacturer’s control, such tire will be replaced with an equivalent new Firestone tire on the basis set forth in the section titled “Limited Warranty Period and Pro Rata Percentages” on the following page. Some examples of causes or conditions normally beyond the manufacturer’s control are:

1. Field or road hazards or stubble damage (e.g., cut, snag, puncture, stubble damage, impact break, tear or chunk in tread, bar or shoulder);
2. Apparent overload or improper inflation pressure or abuse;
3. Wheel misalignment, rim slip, tire/wheel assembly imbalance, mismatching of adjacent tires, or other vehicle conditions, defects or characteristics;

4. Conditions caused by land-leveling or earth-moving operations;
5. Improper repair or improper insertion of sealant, balancing or filler materials;
6. Intentional alteration of either the appearance or the physical characteristics of the tire;
7. Mounting damage or conditions caused by aging or improper storage; and
8. Failure to observe any of the “Owner-User’s Obligations” items listed elsewhere in this publication.

This Limited Warranty is in addition to, and/or may be limited by, any other applicable written warranty you may have received concerning special tires or situations.

## **LIMITED WARRANTY PERIOD AND PRO RATA PERCENTAGES**

During the first two years of service (proof-of-purchase must be attached to claim form), if the tire is worn less than 25%, the tire will be replaced without charge including normal mounting and service charges.

After the free replacement period, the replacement price will be prorated based on years of service from the original purchase date (proof-of-purchase must be attached to claim form, or if proof-of-purchase is not available or if tire was not purchased new, then based on years from date of manufacture, which is molded into the sidewall of the tire), as set forth on the following page.

<b>Years of Service or Age During</b>	<b>If Worn Less Than</b>	<b>Pro Rata Collection</b>
3rd Year	30%	30%
4th Year	40%	40%
5th Year	50%	50%
6th Year	60%	60%
7th Year	70%	70%
8th Year	80%	80%
9th Year	90%	90%

After the end of the 9th year, coverage expires. 100%

To determine the replacement price, the appropriate pro rata percentage is multiplied by the Firestone owner-user's regular buying price. Appropriate taxes, mounting or other service charges will be added to the replacement price.

### **CONDITIONS AND EXCLUSIONS**

To the extent permitted by law, Bridgestone Americas Tire Operations, LLC disclaims all warranties, express or implied, other than the warranties stated in this Limited Warranty, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

TO THE EXTENT PERMITTED BY LAW, BRIDGESTONE AMERICAS TIRE OPERATIONS, LLC DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL AND PUNITIVE DAMAGES, LOSS OF TIME OR PROFITS, LOSS OF VEHICLE USE OR INCONVENIENCE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.

Only the actual owner-user of the covered tires may make an adjustment claim under this Limited Warranty and Commercial Adjustment Policy, and only for tires used in the 50 United States and the District of Columbia.

Nothing in this Limited Warranty is intended to be a representation that failures cannot occur.

### **OWNER-USER'S OBLIGATIONS**

Proper tire care is necessary to obtain maximum hours of usage and wear.

The owner-user's obligations are to operate tires within tire load and speed limits (at cold-air pressures specified by Bridgestone Americas Tire Operations, LLC for load and speed according to individual tire size, type and load capacity), and to maintain proper alignment of wheels.

In case of an adjustment claim, the owner-user must present the tire to an authorized Firestone dealer or store, complete and sign the customer section of the adjustment claim form, attach to the claim form a copy of the proof-of-purchase showing the date the tire was purchased new or proof-of-purchase of the new agricultural equipment that the tire came on, and pay the appropriate replacement price, taxes and service charges for a new, current, equivalent Firestone brand tire.

The obligation of Bridgestone Americas Tire Operations, LLC under this Limited Warranty and Commercial Adjustment Policy may not be enlarged or altered by anyone.





**FARM HARD**  
**Firestone**