



FRAS-LE FRICTION MATERIAL



BRAKE BLOCK AND FMSI CATALOG

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Friction Product Comparisons

This chart does not imply that the competitive material shown is equivalent to Meritor Genuine. Aftermarket materials may differ slightly in axle rating or AL factor from the Meritor original equipment mixes or other mixes shown, but are in the most similar category for comparison purposes only.

Category	Good	Better	Best	Good	Better	Best	Special Application	Special Application	Special Application	Special Application
Description	Value	Standard	Premium	Value	Standard	Premium	Transit Standard	Transit Premium	Severe Service Metallic	Combination
GAWR Rating	20K	20K	21K	23K	23K	23K	26K	28.7K	25K	23K
AL Factor	165 AL	165 AL	165 AL	165 AL	165 AL	165 AL	210 AL	195 AL	180 AL	165 AL
FRAS-LE WD FRICTION	AF520	AF540-1	AF550-1	AF523	AF555-1	AF557	AF557T	AF787T	AF560	AF560/AF555-1
Competitors										
Abex	6085/6085-1 Value20	6011(EL) 6166(AN)	6008-1(EN) 6014(XL)	6149(AX)	6098(SD)	685(EX)	6028(ED) 6133 (MQ)	—	6067	685/6069
Armada	AR1	—	AR2	AR3	AR4	—	AR5	—	ARSM	ARCM
Bendix (pre-Spicer)	BXV	BXS	BXP	—	BXHD	—	—	—	—	—
Bendix Spicer pre-2014	Green	—	Silver/Silver Supreme	Red / Yellow	Gold	—	—	—	ES1100 Bronze	ES1160 Orange
Bendix Spicer 2014	BB200/BA200	BA201	BA201/ES420	BB230/BA230/BA231	BA232	ES600	—	—	ES1100	ES1160
BrakePro	CM14 BP20	—	CM15 CM16	CM18 BP23	CM20	CM22A-1	CM29	—	CMM46	CMB42
Carlisle	NA100 EC20	MB19 MB20	MB21/HD2A	MB44 EC23	—	MB23	WT56	—	MB60	MBC62
Cobreq	NABK 090	NABK 102	—	NABK 110	—	—	—	—	NABK170	NABK 171
Gorilla	GP20P/S SP20P/S	—	—	GP23P/S SP23P/S	—	—	—	—	—	—
Haldex/Midland	HV77	GF3008	GD2016 GR3010	HV88	GH3023	GG3020	GP2030	—	—	GC Combo
Marathon	MH	UB	DB	FLOE	DL	HS/HST	TS KVT	—	MBS	MBC
OTR	BRZ/BLK	—	BLU	GRN	RED/ORG	—	—	—	GLD	SLV
Road Leveler	ECN20	STD20	PR20 ES420	STD23	PR23/SS23	ES600	—	—	—	—
Silverback	SB20	—	—	SB23	—	—	—	—	—	—
Stemco Duroline	Horizon SP20	CrestXL	—	Horizon SP23	VistaHP	VistaHP1	UltraP FT UltraP BRT	—	—	UltraP HH
TP	TP20	—	—	TP23	—	—	—	—	—	—
VIPRO	20KSTD	—	20KPRE	23KPRE	—	—	—	—	—	—

Application Chart

	APPLICATION	20K -21K			23K			23K	25K	26K	28K
		AF520	AF540-1	AF550-1	AF523	AF555-1	AF557	AF555-1 AF560	AF560	AF557T	AF787T
New		VALUE	STANDARD	PREMIUM	VALUE	STANDARD	PREMIUM	COMBO	SEVERE/ METALLIC	STANDARD TRANSIT	ULTRA PREMIUM TRANSIT

Applications			Single Axle Tractor/Trailer	Single Axle Tractor/Trailer		Single Axle Tractor/Trailer	Single Axle Tractor/Trailer				
		Tandem Axle Tractor/Trailer	Tandem Axle Tractor/Trailer	Tandem Axle Tractor/Trailer	Tandem Axle Tractor/Trailer	Tandem Axle Tractor/Trailer	Tandem Axle Tractor/Trailer				
		Flat Bed Trailer	Flat Bed Trailer	Flat Bed Trailer	Flat Bed Trailer	Flat Bed Trailer	Flat Bed Trailer				
								Tri-Axle Dump Trailer	Tri-Axle Dump Trailer	Tri-Axle Dump Trailer	
			Double Trailer	Double Trailer		Double Trailer	Double Trailer				
			Moving Van - Low Profile	Moving Van - Low Profile		Moving Van - Low Profile	Moving Van - Low Profile				
				Logging Trailer			Logging Trailer	Logging Trailer	Logging Trailer		
			School Bus	School Bus		School Bus	School Bus				
							Refuse	Refuse			
							Mixer/Tandem Mixer	Mixer/Tandem Mixer			
							Dump/Tandem Dump	Dump/Tandem Dump			
			Beverage	Beverage		Beverage	Beverage				
		Container Chassis	Container Chassis	Container Chassis	Container Chassis	Container Chassis	Container Chassis				
			Car Hauler	Car Hauler		Car Hauler	Car Hauler				
										Transit/Coach	Transit/Coach
						Fire Truck	Fire Truck	Fire Truck			

Terrain		Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat
		Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate		
				Mountainous			Mountainous	Mountainous	Mountainous		
								Off Road	Off Road		

Freight Weight		Low	Low	Low	Low	Low	Low			Low	Low
		Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
			Heavy	Heavy		Heavy	Heavy	Heavy	Heavy	Heavy	Heavy



Value AF/520/GF

Developed for the price sensitive market, AF/520/GF meets the FMVSS 121 brake standard at 20,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
1308TT	F5201308TT	1
1443TT	F5201443TT	1
4311J	F5204311JB108	108
4515E	F5204515EB108	108
4702	F5204702	1
4707	F5204707B108	108
4709	F5204709B108	108



Standard AF/540-1/FF

In its price category, there is no other brake lining that can compete with either the drum compatibility or wear life of AF/540-1/FF standard. Meets the FMVSS 121 brake standard at 20,000 lb GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
1308TT	F5401308TT	1
4514G	F5404514G	1
4515C	F5404515C	1
4515E	F5404515E	1
4524B	F5404524BD	1
4551	F5404551BD	1
4707	F5404707	1
4709	F5404709	1



Premium AF/550-1/FF

The AF/550-1/FF delivers an outstanding level of durability and friction stability. It is recognized as a dependable, long-lasting and versatile performer. AF/550-1/FF meets the FMVSS 121 brake standard at 21,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
1308	F5501308	1
1308TT	F5501308TT	1
1443TT	F5501443TT	1
1477TT	F5501477TT	1
4311G	F5504311G	1
4311J	F5504311J	1
4514	F5504514	1
4514G	F5504514G	1
4515	F5504515	1
4515C	F5504515C	1
4515E	F5504515E	1
4515E	F5504515EB108	108
4524B	F5504524	1
4524B	F5504524BD	1
4549	F5504549	1
4549C	F5504549C	1
4551	F5504551	1
4551B	F5504551BD	1
4551E	F5504551E	1
4591	F5504591	1
4602	F5504602	1
4605	F5504605	1
4607	F5504607	1
4615	F5504615	1
4618	F5504618	1
4670	F5504670	1
4692	F5504692	1
4702	F5504702	1
4703	F5504703	1
4704	F5504704	1
4707	F5504707	1
4708	F5504708	1
4709	F5504709	1
4710	F5504710	1
4711	F5504711	1
4715	F5504715	1
4715A	F5504715A	1
4718	F5504718	1
4720	F5504720	1



Value AF/523/GG

Developed for the price sensitive market, AF/523/GG meets the FMVSS 121 brake standard at 23,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
1308TT	F5231308TT	1
1443TT	F5231443TT	1
4223A	F5234223A	1
4311G	F5234311G	1
4311J	F5234311J	1
4317G	F5234317G	1
4514G	F5234514G	1
4515C	F5234515CB108	108
4515E	F5234515EB108	108
4524B	F5234524B	1
4551	F5234551B	1
4591	F5234591	1
4670	F5234670	1
4692	F5234692	1
4702	F5234702	1
4703	F5234703	1
4707	F5234707B108	108
4709	F5234709B108	108
4710	F5234710	1
4711	F5234711	1
4715	F5234715	1
4718	F5234718	1
4719	F5234719	1
4725	F5234725	1
4726	F5234726	1



Standard AF/555-1/FF

Across a wide range of demanding applications, including severe high-temperature usage, AF/555-1/FF delivers strong braking power, extended wear life and real value. AF/555-1/FF meets the FMVSS 121 brake standard at 23,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
1308	F5551308	1
1308TT	F5551308TT	1
1308TT2	F5551308TT2	1
1443TT	F5551443TT	1
4223A	F5554223A	1
4311G	F5554311G	1
4311J	F5554311J	1
4317G	F5554317G	1
4514	F5554514	1
4514G	F5554514G	1
4515	F5554515	1
4515C	F5554515C	1
4515C	F5554515CB108	108
4515E	F5554515E	1
4515E	F5554515EB108	108
4515G	F5554515G	1
4524B	F5554524	1
4524B	F5554524BD	1
4549	F5554549	1
4549C	F5554549C	1
4551	F5554551	1
4551B	F5554551BD	1
4551E	F5554551E	1
4591	F5554591	1
4602	F5554602	1
4605	F5554605	1
4607	F5554607	1
4670	F5554670	1
4702	F5554702	1
4703	F5554703	1
4704	F5554704	1
4707	F5554707	1
4707	F5554707B	108
4708	F5554708	1
4709	F5554709	1
4710	F5554710	1
4711	F5554711	1
4715	F5554715	1
4718	F5554718	1
4719	F5554719	1
4720	F5554720	1
4725	F5554725	1
4726	F5554726	1



Premium AF/557/FF

When your operation demands low cost per mile, a high level of safety and minimum downtime, AF/557/FF delivers it all. Recognized in the industry for its many advantages, it's a proven overall performer recommended for trucks and tractors in a wide variety of applications. Its raw strength prevents cracking in either the riveting of the shoe or in application on the truck. AF/557/FF meets the FMVSS 121 brake standard at 23,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
1245A	F5571245A	1
1245C	F5571245C	1
1280	F5571280	1
1280B	F5571280BD	1
1307	F5571307	1
1308	F5571308	1
1308A	F5571308A	1
1308TT	F5571308TT	1
1443TT	F5571443TT	1
4223A	F5574223A	1
4311B	F5574311BD	1
4311G	F5574311G	1
4311J	F5574311J	1
4317C	F5574317C	1
4317G	F5574317G	1
4468	F5574468	1
4471A	F5574471A	1
4471B	F5574471BD	1
4504A	F5574504A	1
4505A	F5574505A	1
4514	F5574514	1
4515	F5574515	1
4515A	F5574515A	1
4515C	F5574515C	1
4515C	F5574515CB108	108
4515CX	F5574515CX	1
4515E	F5574515E	1
4515E	F5574515EB	1
4515G	F5574515G	1
4524B	F5574524	1
4524B	F5574524BD	1
4527B	F5574527BD	1
4528A	F5574528A	1
4536	F5574536	1
4536A	F5574536A	1

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
4536B	F5574536BD	1
4544	F5574544	1
4549	F5574549	1
4551	F5574551	1
4551B	F5574551BD	1
4551C	F5574551C	1
4551E	F5574551E	1
4552	F5574552	1
4591	F5574591	1
4592	F5574592	1
4594	F5574594	1
4595	F5574595	1
4596	F5574596	1
4597	F5574597	1
4602	F5574602	1
4605	F5574605	1
4607	F5574607	1
4615	F5574615	1
4621	F5574621	1
4649	F5574649	1
4661C	F5574661C	1
4670	F5574670	1
4672	F5574672	1
4692	F5574692	1
4693	F5574693	1
4695	F5574695	1
4697	F5574697	1
4700	F5574700	1
4702	F5574702	1
4703	F5574703	1
4704	F5574704	1
4705	F5574705	1
4706	F5574706	1
4707	F5574707	1
4708	F5574708	1
4709	F5574709	1
4710	F5574710	1
4711	F5574711	1
4715	F5574715	1
4716	F5574716	1
4717	F5574717	1
4718	F5574718	1
4719	F5574719	1
4720	F5574720	1
4725	F5574725	1
4726	F5574726	1



Severe-Service Metallic AF/560/FF

In some applications – such as logging and garbage collection – raw brake power is the only way to get the job done. For these types of applications, accept no substitutes! This lining will handle just about anything, including high drum temperatures. AF/560/FF meets the FMVSS 121 brake standard at 25,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
4311J	F5604311J	1
4471A	F5604471A	1
4471B	F5604471BD	1
4515E	F5604515E	1
4524B	F5604524BD	1
4527B	F5604527BD	1
4707	F5604707	1
4708	F5604708	1
4709	F5604709	1
4725	F5604725	1



Severe-Service Metallic Combination AF/560/FF and AF/555-1/FF

The Combo is the perfect match for severe applications with consistently high drum temperatures that demand both brake power and resistance to fade, such as refuse vehicles, logging trucks and off-road applications over rough terrain. The key is the Combo's smart use of two different, but compatible, materials to provide a total performance package. Combo block meets FMVSS 121 brake standard at 23,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
4311G	F5605554311G	1
4311J	F5605554311J	1
4471B	F5605554471BD	1
4514G	F5605554514G	1

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
4515C	F5605554515C	1
4515E	F5605554515E	1
4524B	F5605554524BD	1
4527B	F5605554527BD	1
4551B	F5605554551BD	1
4591	F5605554591	1
4707	F5605554707	1
4709	F5605554709	1



Standard Transit Bus Block AF/557T/FF

When low cost per mile, low downtime and a high degree of safety are all “musts” for your bus or transit operation, get onboard with AF/557T/FF. This noise-resistant mix is ideal for transit applications, and so is its superior resistance to fade, long life and exceptional drum compatibility. In fact, its performance and wear data have been extensively evaluated and acclaimed over millions of miles in use by fleets. AF/557T/FF meets the FMVSS 121 brake standard for Bus at 26,000 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
4228F	F557T4228F	1
4228FFH	F557T4228FFH	1
4228FX	F557T4228FX	1
4228FXFH	F557T4228FXFH	1
4228FXXFH	F557T4228FXXFH	1
4228FXXX	F557T4228FXXX	1
4398	F557T4398	1
4398FH	F557T4398FH	1
4398X	F557T4398X	1
4398XFH	F557T4398XFH	1
4398XXFH	F557T4398XXFH	1
4398XXX	F557T4398XXX	1
4514G	F557T4514G	1
4541C	F557T4541C	1
4541CX	F557T4541CX	1



Ultra Premium Transit Bus Block AF/787T/GF

AF/787T/GF offers proven reliability and durability for transit bus applications. It's designed for superior fade resistance and minimum maintenance and downtime. Plus, this ultra premium mix provides quiet braking for higher customer satisfaction. AF/787T/GF meets the FMVSS 121 brake standard for Bus at 28,666 lb. GAWR.

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
4541CXX	F557T4541CXX	1
4541CXXX	F557T4541CXXX	1
4549C	F557T4549C	1
4592A	F557T4592A	1
4592AFH	F557T4592AFH	1
4592AX	F557T4592AX	1
4592AXFH	F557T4592AXFH	1
4592AXX	F557T4592AXX	1
4592AXXFH	F557T4592AXXFH	1
4592AXXX	F557T4592AXXX	1
4592AXXXFH	F557T4592AXXXFH	1
4644A	F557T4644A	1
4656	F557T4656	1
4656X	F557T4656X	1
4656XX	F557T4656XX	1
4657	F557T4657	1
4657X	F557T4657X	1
4657XX	F557T4657XX	1
4664	F557T4664	1
4665	F557T4665	1
4666	F557T4666	1
4674	F557T4674	1
4690	F557T4690	1
4691	F557T4691	1
4715A	F557T4715A	1
4715AS	F557T4715AS	1
4715ASX	F557T4715ASX	1
4715AX	F557T4715AX	1
4728	F557T4728	1
4728S	F557T4728S	1
4728SX	F557T4728SX	1
4728SXX	F557T4728SXX	1
4728X	F557T4728X	1
4728XX	F557T4728XX	1

FMSI NUMBER	FRAS-LE PART NUMBER	UNIT PACK
4228F	F787T4228F	1
4228FX	F787T4228FX	1
4228FXX	F787T4228FXX	1
4398	F787T4398	1
4398X	F787T4398X	1
4398XX	F787T4398XX	1
4592A	F787T4592A	1
4592AX	F787T4592AX	1
4592AXX	F787T4592AXX	1
4656	F787T4656	1
4656X	F787T4656X	1
4656XX	F787T4656XX	1
4657	F787T4657	1
4657X	F787T4657X	1
4657XX	F787T4657XX	1
4690	F787T4690	1
4690XX	F787T4690XX	1
4691	F787T4691	1
4691XX	F787T4691XX	1
4702	F787T4702	1
4707	F787T4707	1
4711X	F787T4711X	1
4715AS	F787T4715AS	1
4715ASX	F787T4715ASX	1
4715ASXX	F787T4715ASXX	1
4715X	F787T4715X	1
4728S	F787T4728S	1
4728SX	F787T4728SX	1
4728SXX	F787T4728SXX	1

Meritor Aftermarket Parts Warranty

We warrant all new parts for one year from date of shipment to the buyer against defective material or workmanship (but not against damage caused by accident, abuse or improper installation, maintenance or repair) when such parts are used on vehicles the specifications of which have been approved by our Engineering Department.

As the exclusive remedy under this warranty, we will, at our option, repair or replace such parts free of charge, or take back the nonconforming parts and refund the monies paid by buyer for such parts, if found on examination by us to be nonconforming and if any necessary return charges are prepaid.

If it is necessary to return any parts under this warranty, buyer agrees not to make any deduction on account thereof from remittances on current accounts while claims are in the process of disposition. Any expense incurred without our consent for repairs or replacement will not be allowed.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE.

Only genuine Meritor replacement parts are covered by this aftermarket parts warranty.

Listing of Available Fras-le Literature

For full details on the Fras-le product portfolio, visit meritor.com/LOD and search for the following publications.

PUBLICATION NUMBER	TITLE
SP-9843COL	Fras-le Friction Material Offering - Complete collated folder includes one (1) each of the following: SP-9843 SP-9847 SP-0711 SP-9846 SP-9844 SP-20175 SP-9845 SP-0745 SP-0819 SP-20176 SP-9849
SP-9843	World Class Friction Material Leader (FOLDER) Fras-le Brake Block & Lining
SP-0711	Value 20K AF/520/GF Fras-le Friction Material
SP-9847	Standard 20K AF/540-1/FF Fras-le Friction Material
SP-9846	Premium 21K AF/550-1/FF Fras-le Friction Material
SP-0745	Value 23K AF/523/FF Fras-le Friction Material
SP-9845	Standard 23K AF/555-1/FF Fras-le Friction Material
SP-9844	Premium 23K AF/557/FF Fras-le Friction Material
SP-9849	Severe-Service Metallic Combination AF/560/FF and AF/555-1/FF Fras-le Friction Material
SP-20176	Severe Service Metallic AF/560/FF Fras-le Friction Material
SP-20175	Standard Transit Bus Block AF/557T/FF Fras-le Friction Material
SP-0819	Ultra Premium Transit Bus Block AF/787T/GF Fras-le Friction Material



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