

DUROLINE

NAME: Duroline 11/01 CANCEL MEMBERSHIP CHECK LIST

	INITIALS	DATE
1. CANCEL INVOICE ON LEDGER CARD & PULL CARD	98	1/02
2. PULL INVOICE FROM OPEN INVOICE FILE	98	1
3. ENTRY IN GENERAL JOURNAL TO WRITE-OFF INVOICE	98	1
4. REMOVE MEMBER IN EXCEL LEDGERS FILE	98	1/02
5. DELETE NAME & ADDRESS ON ADDRESS LABEL MATRIX: ACTIVE DELETE ON D&A LABELS REGIONAL DELETE ON REGIONAL LABELS LICENSEE DELETE ON LICENSEE LABELS	98	1/02
6. DELETE MEMBER ON LIST OF CURRENT MEMBERS, EITHER ACTIVE, REGIONAL OR LICENSEE	98	1/02/02
7. DELETE NAME AND ADDRESS ON BULLETIN LABELS <i>Disln. BB disc show</i>	98	1/02
8. DELETE PRINTS TO BE MAILED WITH BULLETINS ON EXCEL FILE - PRINTS WITH BULLETINS	98	1/02
9. DELETE NAME & ADDRESS ON CROSS REFERENCE & EDGE CODE LABELS	98	1/02
10. DELETE NEW MEMBER ON DIRECTORY ON WORD	98	1/02
11. IF ACTIVE MEMBER DELETE D&A ON DIRECTORY MAILING LABELS	98	1/02
12. DELETE NAME & ADDRESS ON CATALOG ORDER SOLICITING LABELS	98	1/02
13. DELETE NAME & ADDRESS ON CATALOG MAILING LABELS	98	1/02
14. IF ACTIVE MEMBER DELETE D&A ON CALENDAR LABELS	98	1/02
15. DELETE NAME FROM BILLING FILE IN EXCEL	98	1/02
16. DELETE NAME FROM MEETING MINUTES LABELS	98	1/02

Caxias do Sul, November 19, 2001.

FRICITION MATERIALS STANDARDS INSTITUTE INC.

588 Monroe Turnpike

Monroe, CT 06468

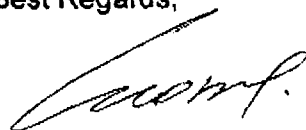
Dear Sirs:

Thanks for your letter dated on October 2, 2001.

In reply to this matter, at the moment we are not interested on continue as membership to this Institute, at least on the next year. So, we would like to ask you to exclude our company's name of your list.

We thank you for your prompt attention.

Best Regards,



Ivo Roberto Dall'Agnol

Director

Cx2 Membership
11/21/01
GNR



DUROLINE S/A
Rua Gerson Andreis, 356 - Distrito Industrial
Fone/Fax: (011) 54.227.2200
95112-130 - Caxias do Sul - RS - Brasil
Site: www.duroline.com.br
E-mail: duroline@duroline.com.br

FMSI 10034

NEW MEMBER CHECK LIST

NAME & ADDRESS: Doroline

TYPE OF MEMBERSHIP: ☐ ACTIVE ☐ REGIONAL ☐ LICENSEE
 START BILLING: _____ DUES AMOUNT: 2300

7/1/2001

- | | <u>INITIALS</u> | <u>DATE</u> |
|--|-----------------|--|
| 1. WRITE LETTER ADVISING NEW MEMBER OF ACCEPTANCE | <u>D</u> | <u>4/1/00</u> |
| 2. SET UP LEDGER CARD IN ACCTS. RECEIVABLE | <u>CP</u> | <u>6/1/00</u> |
| 3. SET UP NEW MEMBER IN EXCEL LEDGERS FILE | <u>D</u> | <u>6/27/00</u> |
| 4. ADD NAME & ADDRESS ON ADDRESS LABEL MATRIX:
ACTIVE ADD TO D&A LABELS
REGIONAL ADD TO REGIONAL LABELS
LICENSEE ADD TO LICENSEE LABELS | <u>D</u> | <u>6/27/00</u> |
| 5. ADD TO LIST OF CURRENT MEMBERS,
EITHER ACTIVE, REGIONAL OR LICENSEE | <u>D</u> | <u>6/1/00</u> |
| 6. ADD NAME AND ADDRESS TO BULLETIN LABELS
WITH TYPE OF PRINTS | <u>D</u> | <u>6/27/00</u> |
| 7. POST PRINTS TO BE MAILED WITH BULLETINS
TO EXCEL FILE - PRINTS WITH BULLETINS | <u>D</u> | <u>6/1/00</u> |
| DISC LININGS ☒ DRUM LININGS ☐ | | BRAKE BLOCKS ☒ |
| CLUTCH FACINGS ☐ DISC SHOES ☒ | | DRUM SHOES ☐ |
| 8. ADD NAME&ADDRESS TO CROSS REF./EDGE CODE LABELS | <u>D</u> | <u>6/27/00</u> |
| 9. ADD NEW MEMBER TO DIRECTORY ON WORD | <u>D</u> | <u>6/27/00</u> |
| 10. IF ACTIVE MEMBER ADD D&A TO DIRECTORY
MAILING LABELS | <u>—</u> | <u>—</u> |
| 11. ADD NAME & ADDRESS TO CATALOG ORDER
SOLICITING LABELS | <u>D</u> | <u>6/27/00</u> |
| 12. ADD NAME & ADDRESS TO CATALOG MAILING LABELS | <u>D</u> | <u>6/27/00</u> |
| 13. IF ACTIVE MEMBER ADD D&A TO CALENDAR LABELS | <u>—</u> | <u>—</u> |
| 14. FILE APPROPRIATE CORRESPONDENCE ON GAINING
MEMBERSHIP IN FILE FOLDER OR BALLOT FOLDER. | <u>D</u> | <u>—</u> |

Start 7/1/2001 \$2,000

A P P L I C A T I O N F O R M E M B E R S H I P

NOTE: ALL QUESTIONS MUST BE ANSWERED IN ENGLISH

TO THE BOARD OF DIRECTORS OF FRICTION MATERIALS STANDARDS INSTITUTE, INC.

The undersigned hereby applies for membership in the FRICTION MATERIALS STANDARDS INSTITUTE, INC., as a Regional Member, and certified to the following:

1. Name of Applicant Company: DUROLINE S.A.
2. State or Province: CAXIAS DO SUL - RS. BRASIL
3. Address of Principal Office: RUA GERSONN ANDREIS, 366
4. Date of Incorporation: JULY 26, 1988
5. Length of time dealing with friction materials: 11 YEARS
6. Do you manufacture friction materials from the basic materials or do you buy partially finished products from other companies?
WE MANUFACTURE FRICTION MATERIAL FROM THE BASIC MATERIALS.
7. Type of friction materials manufactured, and approximate annual capacity of plant (Pieces or Tons):
BRAKE BLOCKS - 400.000 SETS/8 DISC PADS - 40.000 SETS/4
8. State approximate amount of said materials manufactured in commercial quantities (Pieces or Tons): THE SAME OF ITEM 7.
9. Do you plan to market your friction product in the United States? YES
10. Do you list the materials you manufacture in catalogs or in some other form? If so, please furnish us with a copy of same:
THE MATERIAL WE MANUFACTURE ARE LISTED IN CATALOGS, SEE ATTACHED

APPLICATION FOR MEMBERSHIP

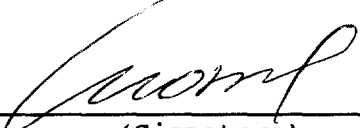
Page 2

11. Reference as to financial strength in relation to operations
(Balance sheet or Credit References): _____

ATTACHED BALANCE SHEET.

12. Is plant owned by applicant or leased? THE PLANT IS OWNED BY
APPLICANT.

The undersigned hereby acknowledge receipt of a copy of the Constitution and By-Laws of the Institute and agrees that, if elected to membership, it will accept and be bound by the said Constitution and By-Laws, together with any amendments that may from time to time be made thereto.



(Signature)

IVO ROBERTO DALL'AGNOL - DIRECTOR
(Print or Type Name and Title)

Signature must be that of Officer, Principal or Manager of
manufacturer applicant.

PLEASE LIST COMPLETE COMPANY NAME, MAILING ADDRESS,
TELEPHONE NUMBER, FAX NUMBER AND EMAIL ADDRESS (IF
AVAILABLE).

DUROLINE S.A.

RUA GERSON ANDREIS, 366

DISTRITO INDUSTRIAL

95112-130 CAXIAS DO SUL - RS

BRASIL

PHONE / FAX: (55 54) 227.2200

EMAIL: duroline@duroline.com.br

TELEPHONE (203) 452-1877
FAX (203) 452-7951
E-MAIL: FMSIINC@aol.com

FRICION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

April 26, 2000

Mr. Ivo Roberto Dall'Agnol
Duroline S.A.
Rua Gerson Andreis, 366
Distrito Industrial
95112-130 Caxias Do Sul - RS
Brasil

Dear Sir:

We are pleased to advise that the Board of Directors has voted to approve the Regional Membership Application filed by Duroline S.A. Your application has been reviewed by the Membership Committee and the Board of Directors.

Your Membership is effective immediately, however, for accounting purposes, we will consider it as effective 7/1/00. Thus, your pre-paid Membership Dues will carry from 7/1/00 to 6/30/2001. On 7/1/2001 we will invoice you for Membership Dues for the Quarter - July - September 30, 2001 and every quarter thereafter, unless you would prefer a single billing for the full year on July 1, please advise.

Enclosed is a copy of our 1999 Automotive Data Book. In early June our 2000 Automotive Data Book - Library Edition will be available. The cost is U.S.\$3.40/each plus shipping. Bulletins will be mailed to you as they are generated. Copies of FMSI assignment drawings are available. In quantities of 5 or less assignments there is no charge. Over five assignment drawings we charge U.S.\$1.00 per assignment.

Welcome to FMSI Membership. If there is anything we can do to assist you, please let us know.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

FMSI 10038

FRICITION MATERIALS STANDARDS INSTITUTE, INC.
588 MONROE TURNPIKE, MONROE, CT 06468

TELEPHONE (203) 452-1877
FAX (203) 452-7951
E-MAIL: FMSIINC@aol.com

April 6, 2000

TO: Officers and Board of Directors
SUBJECT: Application for Regional Membership Filed by
Duroline S.A.

Enclosed is a copy of the Application for Regional Membership
filed by Duroline S.A. The complete address of the application
is:

Duroline S.A.
Rua Gerson Andreis, 366
Distrito Industrial
95112-130 Caxias Do Sul - RS
Brasil

The date of incorporation is July 1988. They manufacture brake
blocks and disc pads. The application was signed by Mr. Ivo
Roberto Dall'Agnol, Director and the first years annual dues
payment has been received.

The Membership Committee has now completed its review of the
application and recommend its acceptance. A copy of the
application is enclosed. Would you kindly review the application,
complete the ballot and return it to the Institute.

Ballots are enclosed with Directors copies only. Please return
the ballot by fax to 203-452-7951 (cover page not necessary).
Thank you.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

FMSI 10039

FRICITION MATERIALS STANDARDS INSTITUTE, INC.
588 MONROE TURNPIKE, MONROE, CT 06468

TELEPHONE (203) 452-1877
FAX (203) 452-7951
E-MAIL: FMSIINC@aol.com

DIRECTOR'S
BALLOT

April 6, 2000

Friction Materials Standards Institute
588 Monroe Turnpike
Monroe, CT 06468

Gentlemen:

My vote on the application for Regional Membership filed by
Duroline S.A. is:

Accept ☐

Do Not
Accept ☐

By: _____

Company: _____

Date: _____

FMSI 10040

FRICITION MATERIALS STANDARDS INSTITUTE, INC.
588 MONROE TURNPIKE, MONROE, CT 06468

TELEPHONE (203) 452-1877
FAX (203) 452-7951
E-MAIL: FMSIINC@aol.com

March 16, 2000

TO: Membership Committee

SUBJECT: Application for Regional Membership Filed by
Duroline S.A.

Enclosed is a copy of the Application for Regional Membership
filed by Duroline S.A. The complete address of the application
is:

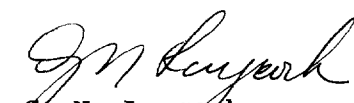
Duroline S.A.
Rua Gerson Andreis, 366
Distrito Industrial
95112-130 Caxias Do Sul - RS
Brazil

The date of incorporation is July 1988. They manufacture brake
blocks and disc pads. The application was signed by Mr. Ivo
Roberto Dall'Agnol, Director and the first years annual dues
payment has been received.

Would you please review the application, complete the ballot and
return it by fax to 203-452-7951 (cover page not necessary).
Thank you.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

FMSI 10041

FRICION MATERIALS STANDARDS INSTITUTE, INC.
588 MONROE TURNPIKE, MONROE, CT 06468

TELEPHONE (203) 452-1877
FAX (203) 452-7951
E-MAIL: FMSIINC@aol.com

M E M B E R S H I P
C O M M I T T E E
B A L L O T

March 16, 2000

Friction Materials Standards Institute
588 Monroe Turnpike
Monroe, CT 06468

Gentlemen:

My vote on the application for Regional Membership filed by
Duroline S.A. is:

Accept ☐

Do Not
Accept ☐

By: _____

Company: _____

Date: _____



Caxias do Sul, December 7th, 1999

FRICITION MATERIAL STANDARDS INSTITUTE, INC.
588 Monroe Turnpike
MONROE, CT 06468 - USA.
(203) 452.7951

Att. Mr. G.N. Laycock

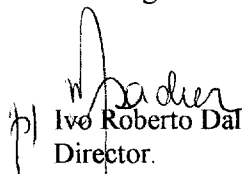
Dear Sirs:

We are glad to send you the APPLICATION FOR MEMBERSHIP (2 copies) and CATEGORY REPORTING (1 copy) .

We would like to ask you to inform us details about the bank, account number and any other information necessary in order to do the payment regarding to the first year's Annual Dues.

Waiting hear from you soon, we remain with our

Best Regards.


p) Ivo Roberto Dall'Agnol
Director.

e-mail: ivo@duroline.com.br
malvina@duroline.com.br

FMSI 10043



DUROLINE S/A
Rua Gerson Andreis, 366 - Distrito Industrial
Fone/Fax: (054) 227.2200
95112-130 - Caxias do Sul - RS - Brasil
Site: www.duroline.com.br
E-mail: duroline@duroline.com.br

FRICTION MATERIALS STANDARDS INSTITUTE, 588 MONROE TURNPIKE, MONROE, CT 06468

CATEGORY REPORTING

Friction Materials Standards Institute
588 Monroe Turnpike
Monroe, CT 06468

Member Category Filing for Fee Purpose

Gentlemen:

We offer for sale in the United
States market using the copyrighted
FMSI numbers and/or their
Trademarks FMS and FMSI.

Category

Disc Brake Linings or Pads

☒

Drum Brake Linings - Under 3/4" Nominal

☐

Brake Block - 3/4" and over Nominal

☒

Clutch Facings (all)

☐

Brake Shoes (Disc and/or Drum)

☐

Please affix an "X" in the square to the right of the category or
categories in which your company is engaged.

Signature: _____

Name (Type/Print): IVO ROBERTO DALL'AGNOL

Company: DUROLINE S.A.

Date: NOVEMBER 25th, 1999

FMSI 10044

DUROLINE S/A

BALANÇO PATRIMONIAL EM
(Em R\$)

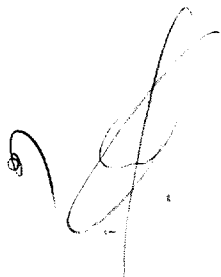
ATIVO	31/10/99	%
CIRCULANTE		
Disponibilidades	987.901,34	10,18%
Contas a receber de clientes	1.856.086,53	19,13%
Provisão para riscos de crédito	-114.903,35	-1,18%
Outras contas a receber	91.998,14	0,95%
Estoques	1.429.165,84	14,73%
Aplicação de recursos em despesas	2.628,52	0,03%
Total do circulante	<u>4.252.877,02</u>	43,84%
REALIZÁVEL A LONGO PRAZO		
Depósitos Judiciais	5.420,00	0,06%
Partes Relacionadas	761.153,77	7,85%
Total do realizável a longo prazo	<u>766.573,77</u>	7,90%
PERMANENTE		
Investimentos	3.807,54	0,04%
Imobilizado	4.677.827,12	48,22%
Total do permanente	<u>4.681.634,66</u>	48,26%
Total do ativo	<u>9.701.085,45</u>	100,00%



DUROLINE S/A

BALANÇO PATRIMONIAL EM
(Em R\$)

PASSIVO	31/10/99	%
CIRCULANTE		
Fornecedores	800.027,32	8,25%
Instituições financeiras	794.920,80	8,19%
Salários e ordenados	83.038,00	0,86%
Impostos e contribuições sociais	204.847,27	2,11%
Provisão de férias e 13º salário	321.731,64	3,32%
Provisão p/Imposto de Renda e Contrib. Social	185.284,84	1,91%
Outras contas a pagar	62.523,90	0,64%
Total do circulante	<u>2.452.373,77</u>	25,28%
EXIGÍVEL A LONGO PRAZO		
Instituições financeiras	2.460.245,99	25,36%
Total do exigível a longo prazo	<u>2.460.245,99</u>	25,36%
PATRIMÔNIO LÍQUIDO		
Capital social	2.266.135,78	23,36%
Reservas de Capital	820.302,71	8,46%
Reservas de Lucros	34.424,10	0,35%
Resultados acumulados	1.667.603,10	17,19%
Total do patrimônio líquido	<u>4.788.465,69</u>	49,36%
Total do passivo	<u>9.701.085,45</u>	100,00%



DUROLINE S/A

DEMONSTRAÇÃO DO RESULTADO

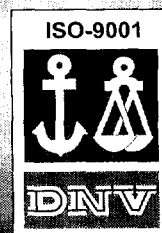
(Em R\$)	31/10/99	%
RECEITA BRUTA DE VENDAS		
Vendas de produtos e mercadorias	12.561.988,82	129,25%
Deduções de vendas:		
Devoluções e impostos	-2.842.477,14	-29,25%
Receita operacional líquida	9.719.511,68	100,00%
CUSTO DOS PRODUTOS E SERVIÇOS VENDIDOS	-5.785.999,53	-59,53%
Lucro bruto operacional	3.933.512,15	40,47%
DESPESAS OPERACIONAIS		
Com vendas	-1.298.646,21	-13,36%
Remuneração dos administradores	-167.372,00	-1,72%
De administração	-619.967,38	-6,38%
Resultado das operações financeiras:		
Despesas financeiras	-717.135,41	-7,38%
Receitas financeiras	292.303,75	3,01%
Equivalência Patrimonial	-	0,00%
Outras receitas operacionais	7.802,28	0,08%
Lucro operacional	1.430.497,18	14,72%
Outras despesas não operacionais	-	0,00%
Outras receitas não operacionais	30.000,00	0,31%
Resultado da correção monetária	-	0,00%
Lucro antes da contribuição social	1.460.497,18	15,03%
Contribuição social	-82.969,95	-0,85%
Lucro antes da provisão para imposto de renda	1.377.527,23	14,17%
Provisão para Imposto de renda	-363.982,07	-3,74%
Lucro líquido do exercício	1.013.545,16	10,43%

Carlos R. Mazzochi
Diretor

Eleandro Stumpf
Contador CRC-RS 43.501

DUROLINE

Brake Linings



APPLICATION TABLE

FMSI 10048

DUROLINE'S APPLICATION TABLE PRODUCTS

MARK AND MODEL	YEAR	LOCALIZATION	DUROLINE OR FMSI REFERENCE
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AGRALE

TX-1.100	81/82	F B	— 2080-T
TX-1.200	83/84	F B	— 2080-T
TX-1.600	85/90	F	2042-A
1.600 D	83/85		
1.800 D	88/90	B	DF/671
1.600 D/1.800 D	90/94	F	DP/407
4.500 D/5.000 D	94/	B	DF/672
1.600 D 4x4	85/89	F B	DP/408 DF/671
7.000 D	93/	F	DW/977
7.500 TD	94/		
8.500	97/	B	DW/977

ASIA MOTORS

TOPIC STD	93/	F	DP/414
Fuji		B	—

CARRETAS 3º EIXO

BISELLI	ATE 78	B	—
	78/	B	DC/332
CHARGER	95/	B	DC/381
	TODOS	3º EIXO	4524-B
CONTIN	ATE 78	B	4515-C
	78/	B	DC/332
ENGESA-FNV (Fruehauf)	ATE 80	B	4515-C
	80/	B	4515-C
	80/	B	DC/332
		2 EIXOS	4515-C
GOLIVE	79/	3 EIXOS	DC/332
GOTTI	68/	B	DS/723
GRAHL	TODOS	3º EIXO	4195-B
		B	DS/723
			DS/726
	65/78	3º EIXO	4195-B
	65/78	B	DS/723
			DS/726
	79/93	3º EIXO	4514-F
			4515-C
			DC/332
	93/	3º EIXO	DFW/988
	79/95	B	DC/332
		B	DC/332
	95/	B	DC/381
	ATE 79	3º EIXO	4195-B
		B	DS/723
			DS/726
		3º EIXO	4514-F
		EIXO	4515-C
	80	1 e 2 EIXOS	4515-C
		3 EIXOS	DC/332
	ATE 79	SEMI-REBOQUE	4514-F
		EIXO A DISCO	4515-C
	80	EIXO RAIADO	DC/332
	TODOS	3º EIXO	4524-B
MAFERSA (CARRETA)	TODOS	B	DC/332
MAFERSA (ÔNIBUS)	TODOS	F	4514-F
		B	DC/332
MARINGÁ	79	3º EIXO	4514-F
	84	B	DC/332

MARK AND MODEL	YEAR	LOCALIZATION	DUROLINE OR FMSI REFERENCE
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CARRETAS 3º EIXO (Continuation)

MASSARI	ATE 78	B	—
	78	B	DC/332
	Até 84	SEMI-REBOQUE	DS/726
	84		DC/332
METALPI	TODOS	3º EIXO	DW/917
			DM/583
			4515-C
			DC/332
MINJANO	TODOS	B	DS/723
	Até 78	3º EIXO	4195-B
	79/	3º EIXO	4514-F
	TODOS	B	DC/332
PASTRE	83	SEMI-REBOQUE	DC/332
	83	3º EIXO	4514-F
			4515-C
	58/70	3º EIXO	—
	71/87	3º EIXO	4195-B
	58/62	B	—
	63/87	B	DS/723
			DS/726
	87/	3º EIXO	4514-G
	87/97	B	DC/332
	98	B	DC/718
	99	B	DC/333
RANDON	ATE 78	B	4515-C
	78/	B	DC/332
			4195-B
	65/	3º EIXO	DS/723
			DS/726
	65/73	B	DS/723
	74/	B	DS/723
	74/	B	DS/726
	65/	3º EIXO	4195-B
	63/65	B	—
	66/	B	DS/723
RODOVIÁRIA	ATE 79	2 EIXOS	4514-F
	80/		4515-C
	ATE 79	3 EIXOS	4515-C
	80/		DC/332
ROSSETTI	ATE 79	2 EIXOS	4514-F
	80/		4515-C
	ATE 79	3 EIXOS	4515-C
	80/		DC/332
SCHIFFER	ATE 79	2 EIXOS	4514-F
	80/		4515-C
	ATE 79	3 EIXOS	4515-C
	80/		DC/332

CHRYSLER

DODGE D-400	78/83	F	DF/673
		B	DF/672
DODGE D-700	69/82	F	2060
D-750		B	4564-A
DODGE D-900	71/78	F	—
		B	4514-F
DODGE P-700	69/82	F	2060
		B	4564-A
	71/78	F	—
P-900			
DODGE D-950	75/83		
E-13	81/85	B	4514-F
E-21	81/85		
DODGE D-400	69/77	F	—
P-400		B	2042-A
DODGE E-13	81/85	F	—
E-21		B	4514-F

CUMMINS

RL/RLU/URL-413	70/72	F	4524-B
RC/RCA/UC/UCU/UCU-210	73/76	B	4515-C

FIAT

FIAT-140	79/85	F	DW/917
FREIO VARGA		B	DW/917
		3º EIXO	DW/917

MARK AND MODEL	YEAR	LOCALIZATION	DUROLINE OR FMSI REFERENCE
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FIAT (Continuation)

FIAT-180	76/79	F B	— 4514-F
FIAT-190	76/85	F B	4524-B 4515-C
FIAT-210	76/78	F B	4524-B 4515-C

FNM

FNM-180	75/77	— B	— 4514-F
FNM-190	76/77	F	4524-B
FNM-210	73/77	B	4515-C

FORD

F-1000	79/94	F	DP/408
F-1000 (TURBO)	90/94	B	2080-T
FREIO A DISCO BENDIX			
F-1000 4x4	93/94	F	DP/402
FREIO A DISCO BENDIX		B	2080-T
F-1000	95/	F	DP/404
F-1000 (TURBO)	95/		
F-1000 4x4	94/	B	2080-T
FREIO A DISCO BENDIX			
F-2000	80/85	F	DP/408
FREIO A DISCO BENDIX		B	DF/671
		F	2026-T
F-350	62/67	B	—
		E	—
		F	—
F-350	68/71	B	2042-A
		E	—
F-350	72/78	F	2042-A
		B	—
F-400	75/77	F	2042-A
F-4000	75/84	B	DF/672
F-4000	85/	F	DP/407
		B	DF/672
F-4000 TURBO	96/	F	DP/406
FREIO A DISCO VARGA		B	DP/406
F-600	59/60	F	2060
ATE MOTOR 17683		—	—
F-600	60/71	F	2060
APARTIR DO MOTOR 17684		B	4564-A
F-600	72/80		
F-7000	76/80	F	DF/674
F-11000	81/89		
F-12000	87/88	B	DF/675
FREIO BENDIX			
F-11000	89/92	F	DF/683
FREIO BENDIX		B	DF/685
F-700	76/80		
F-750	71/77	F	DF/676
F/FT-8000	77/80		
F-8500	77/79		
F-13000	81/86	B	4514-F
FREIO BENDIX			
F-21000	81/83	F	—
F-22000	82/85	B	4514-F
FREIO BENDIX		3º EIXO	4514-F
F-7000	79/80		
FT-7000	79/80	F	—
F-12000	81/82		
F-19000	81/82	B	DFW/980
FREIO VARGA			

DUROLINE'S APPLICATION TABLE PRODUCTS

CALL- TION	DUROLINE OR FMSI REFERENCE
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MARK AND MODEL	YEAR	LOCAL- ZATION	DUROLINE OR FMSI REFERENCE
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MARK AND MODEL	YEAR	LOCAL- ZATION	DUROLINE OR FMSI REFERENCE
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MARK AND MODEL	YEAR	LOCAL- ZATION	DUROLINE OR FMSI REFERENCE
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FORD

F-12000	87/89		
F-14000	87/89		
C-1215	86/91	F	DFW/983
CARGO: C-1313	85/87		
C-1314	85/86		
C-1415	86/91		
C-1514	85/86	B	4515-G
C-1615	86/90		
FREIO A AR BENDIX			
C-1415	92/96	F	DFW/983
C-1422	92/96		
F-12000	89/92		
F-14000	89/96	B	DFW/984
FREIO A AR BENDIX			
F-14000	97/	F	DW/986
FREIO MASTER		B	DFW/988
C-1415	97/	F	DW/986
C-1422		B	DFW/988
C-1416	98/	3º EIXO	DFW/988
FREIO MASTER			
C-1215		F	DFW/983
F-12000	92/96	B	DF/685
F-12000 (ÔNIBUS)			
FREIO A AR BENDIX			
C-1215		F	DW/986
F-12000	97/	B	DW/987
F-12000 (ÔNIBUS)			
FREIO MASTER			
C-1218	87/91		
C-1317/C-1517	85/86	F	DFW/983
C-1418/C-1618	86/90		
C-1419	90/91		
C-1619/C-3224	90/97	B	4515-G
FREIO A AR BENDIX			
C-1617/C-1622	92/96		
C-1618/C-1619	91/96	F	DF/685
C-2422/C-2322	92/96		
C-3224	91/96		
C-3530	92/97		
C-4030	95/96	B	DFW/984
FREIO A AR BENDIX			
C-1617		F	DFW/987
C-1618		B	DFW/988
C-1622	97/		
C-1722		3º EIXO	DFW/988
FREIO MASTER			
B-1618 - CO	93/		
C-1630	97/	F	DFW/987
C-2422	95/		
C-2425	95/		
C-3224	97/	B	DFW/988
C-4030	97/		
FREIO MASTER			
F-22000	86/89	F	DFW/983
C-2217	86/90		
C-2218	87/90		
C-2218-T	88/90	B	4515-G
C-2219/C-2219-T	90/		
C-2422	89/90	3º EIXO	4515-G
C-2324	90/96		
FREIO A AR BENDIX			
F-22000	89/91	F	DFW/983
FREIO A AR BENDIX		B	DFW/984
C-2319 6x2	91/96		
C-2319-T 6x2	91/96	F	DF/685
C-2322 6x2	92/96		
C-2324 6x4	91/97	B	DFW/984
C-2422 6x4	92/95	3º EIXO	DFW/984
FREIO A AR BENDIX			
B-1621 (ÔNIBUS)		F	DFW/988
FREIO MASTER	98/	B	DFW/910
C-814		F	DW/977
FREIO MASTER	96/	B	DW/977

GM

PICK-UP	79/80	F	DP/408
A/C-10	ATE		
	AGOSTO	B	-
A-14/4 CIL	80/85	F	DP/408
C-14/4 CIL	A PARTIR DE		
C-14/6 CIL	DE	B	-
FREIO A DISCO BENDIX	SETEMBRO		
PICK-UP	79/80	F	DP/408
D-10	ATE		
	AGOSTO	B	-
D-14/4 CIL	80/85	F	DP/408
D-15/4 CIL	A PARTIR DE		
FREIO A DISCO BENDIX	SETEMBRO	B	-
PICK-UP			
C/D-10/1000	79/80	F	DP/408
D/14/1000	ATE		
D/15/1000	AGOSTO		
C/14/1000		B	2080-T
C/15/1000			
FREIO A DISCO BENDIX			
PICK-UP			
C/D-10/1000	80/85	F	DP/408
D-14/1000	A PARTIR DE		
D-15/1000	DE	B	2080-T
C-14/1000	SETEMBRO		
C-15/1000			
FREIO A DISCO BENDIX			
A/C/D-10		F	DP/408
4 E 6 CILINDROS	85/94	B	2080-T
BONANZA			
VERANEIO	90/94	F	DP/408
A/C/D-20	79/94		
4 E 6 CILINDROS	85/93	B	2080-T
A/C/D-20		F	DP-402
4 E 6 CILINDROS	93/94	B	-
FREIO A DISCO BENDIX			
BONANZA	94	F	DP/404
VERANEIO	94		
A/C/D-20	94/97	B	-
SILVERADO	97/		
FREIO A DISCO BENDIX			
S-10 4x2		F	DP/403
BLAZER 4x2	95/	-	-
FREIO A DISCO VARGA			
S-10 4x4		F	DP/401
BLAZER 4x4	97/	B	-
FREIO A DISCO DELPHI			
CAMINHÃO		F	DP/405
A/C/D-40	85/96	B	DF/672
CAMINHÃO		F	2039
SÉRIES: 6403	60/64	B	-
6503			
CAMINHÃO		F	2039
SÉRIES: C-60	64/71		
D-60		B	-
DIESEL PERKINS			
4 MARCHAS			
CAMINHÃO		F	2039
SÉRIES: C-60	64/71		
D-60		B	-
DIESEL PERKINS			
5 MARCHAS			
CAMINHÃO		F	DF/674
SÉRIES: C-60	72/79	B	DF/675
D-60			
DIESEL PERKINS			
CAMINHÃO		F	-
SÉRIES: C-60	80/81	B	DF/675
D-60			
DIESEL PERKINS			
FREIO BENDIX			
CAMINHÃO		-	-
SÉRIES: D-70	76/85	B	4514-F
Detroit DIESEL			

GM (Continuation)

CAMINHÃO	93/96	F	DP/405
6.000		B	DF/672
CAMINHÃO		F	-
SÉRIES: D-70	70/85		
D-80	82/85	B	4514-F
DIESEL PERKINS			
12-170	97	F	DW/986
GMC 14-190		B	-
15-190	97/98	F	4524-B
GMC 16-220	97	B	-
12-170		F	DFW/983
GMC 14-190	98/	B	DFW/984
15-190			
16-220			

HYUNDAI

H-100/HCD-2	97/	F	DP/412
		B	-

INTERNATIONAL

AC, N, NV/184	57/65	F	-
		B	4514-F

KIA MOTORS

ST			
BESTA-EST	93/	F	DP/417
FURGÃO		B	-
K2700 BONGO			
BESTAGS	97/	F	DP/416
		B	-

MERCEDES-BENZ

L/LA/LAS/LAK/			
LKLS-1111	64/70	F	DW/576
LPO-334			
LPO/OM-321	70/82		
O-352			
L/LA/LAK/LAS/LK	70/82	B	DW/576
LP/LPOLLS-1113			
L/LA-1116			
L/LA/LAK/LK/LPO/			
LS/OF/OH-1313	70/83	F	DW/580
L/LKLS/OH-1316		B	DW/580
FREIO HIDRÁULICO			
L/LK/LB-2013		F	DW/580
L/LA/LB/LK-2213	70/83		
L/LB/LK/2216		B	DW/580
L/LK/LB-2219	78/83	3º EIXO	DW/580
FREIO HIDRÁULICO			
O/OM-326	64/78		
O-355 O-362	73/78		
O-364	79/86		
O-365	87/90	F	DW/580
L/LKLS/OH-1316	64/83		
(REDUZIDA)			
OH-1419	79/82		
L-1513	70/82		
LK-1513	70/83		
L/LK-1516	70/83		
OH-1517	77/82		
L-1519	73/82		
LG/LKLS-1519	73/82	B	DW/581
LP/LPK/LPO/			
LPS-1520	67/78		
FREIO HIDRÁULICO			
L/LKLS-1113	83/86		
L/LKLS-1114	87/89		
L-1115	87/88	F	DW/582
L/LK-1118	87/89		
L-1214	89/96		
LK-1214	89/93		
1214/1214-K/1218	91/96	B	DW/582
L-1218	89/		
FREIO A AR			

DUROLINE'S APPLICATION TABLE PRODUCTS

LOCALI- ZATION	DUROLINE OR FMSI REFERENCE
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MARK AND MODEL	YEAR	LOCALI- ZATION	DUROLINE OR FMSI REFERENCE
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MERCEDES-BENZ (Continuation)

L/LK-1113	83/86	F	DM/577
FREIO HIDRÁULICO		B	DM/577
O-364	85/86	F	DM/590
O-365	87/90	B	DM/590
FREIO HÍBRIDO			
L/LAK-1313/1316	82/87	F	DM/582
L/LAK-1314/1317/1318	87/90		
LA-1418	89/		
LAK-1418	89/93	B	DM/583
FREIO A AR			
OF-1113	82/86		
OF-1114	87/90		
OF-1115	87/92		
L/LK/LS/	82/87	F	DM/583
OF-1313			
L/LK-1314	87/91		
LS/OF-1314	87/89		
OF-1315	88/93		
L/LK-1316	82/86		
L/LA/LAK-1317	86/90		
L/LK-1318	87/89		
OF-1318	87/94		
1414	91/96		
L-1414	89/96	B	DM/583
LK-1414	89/93		
1418	91/96		
L/LA-1418	89/		
LAK/LK-1418	89/93		
FREIO A AR			
OF-1318	95/	F	DM/584
OF-1318	95/		
CHASSI ARGENTINO			
OH-1417	98/	B	DM/585
OH-1621	97/		
L-2013	83/86		
L-2014	87/90		
L/LB/LK-2213	83/86	F	DM/583
L/LB/LK-2214	87/90		
L-2215	83/86		
L/LB/LK-2215	89/90		
L/LB/LK-2216	83/86		
L/LB/LK-2217	87/88		
L/LB/LK-2219	83/86	B	DM/583
L/LB/LK-2220	87/91		
L-2225	89/91		
L-2314	90/93		
L-2318	90/		
LB/LK-2318	90/93		
L-2325	90/		
LB/LK-2325	90/93	3º EIXO	DM/583
2414	94		
2418	92/		
FREIO A AR			
LK-1313 (EIXO HL5)	83/86		
OH-1313	83/87		
OH-1314/OH-1315	87/90	F	DM/583
OH-1315 (GÁS)	91/95		
OH-1316	83/86		
OH-1318	89/86		
L-1319	85	B	DM/584
1418/1418 K (EIXO HL5)	91/		
FREIO A AR			
OH-1419	83/86		
OH-1420	87/90		
L/LK-1513	83/86	F	DM/583
L/LK-1514	87/89		
L/LK-1516	83/86		
L/LK-1517	86		
OH-1517	83/86	B	DM/584
L/LK/OH-1518	87/90		
L/LK/LS-1519	83/86		

MERCEDES-BENZ (Continuation)

L-1520	87/91		
LK-1520	87/90		
LS-1520	87/89	F	DM/583
OH-1520	89/93		
LS-1524	83/87		
LS-1525	88/90		
L-1614	89/95		
LK-1614	90/93		
L/LK-1618	89/93	B	DM/584
L-1621	90/96		
LK-1621	90/93		
FREIO A AR			
L-1614	89/95		
LK-1614	90/93		
L-1618	89/96		
LK-1618	89/93	F	DM/584
L-1620	96/		
L-1625	90/94		
LS-1625	90/96		
L-1630	94		
LS-1630	90/	B	DM/584
1718	91/		
1718 K	91/93		
1721/1721S	92/		
FREIO A AR			
LB-2423 6x2		F	DM/584
FREIO A AR	95/96	B	DM/584
		3º	DM/584
OF-1618	92/96		
OF-1620	93/	F	DM/584
OF-1721	98/		
OH-1625 L	96/97		
OH-1635 L	95/	B	DM/588
OH-1636 L	98/		
FREIO A AR			
2038		F	DM/584
2240	97/	B	DM/588
IMPORTADO			
LS-1924	76/83		
L/LS-1924-A	81/83		
LS-1929	76/86	F	DM/584
LS-1930	87/89		
LS-1932	84/86		
LS-1933	87/89		
LS-1934	88/90	B	DM/585
LS-1935/LS-1941	90/		
LS-2624	79/84		
L-2635	94/	F	DM/584
LS-2635	95/	B	DM/585
		3º EIXO	DM/585
O-370 R	86		
O-370 RS	84/89		
O-371 R	87/96	F	DM/590
O-371 RS	87/93		
O-371 RSL	92/93		
O-371 U/UP	87/96		
O-371 U (GÁS)/UL	92/95		
O-400 R/RS	95/96	B	DM/591
O-400 RSL	95/97		
O-400 UP	95		
O-370 RSD	84/88	F	DM/590
O-371 RSD	87/95	APOIO	DM/590
O-400 RSD	95/97	B	DM/591
LPO-1111		F	DM/579
LPO-1113	77/83	B	DM/579
FREIO ADAPTADO			
ÔNIBUS	TODOS	F	DM/580
SISTEMA BOECHAT		B	DM/580
ÔNIBUS		F	4524-B
FREIO A AR			
SISTEMA BENDIX	TODOS	B	4514-F

MERCEDES-BENZ (Continuation)

L/O-608 D	72/80	F	DM/586
		B	DM/586
L/O-608 D	81/86	F	DM/587
L-610			
L/O-708 E	87/89	B	DM/587
709	88/		
710	96/	F	DP/409
712	92/94		
LO-812	88/96		
LO-814	96/		
912	88/96	B	DM/593
914	95/98		
		F	DP/409
1114 6x2	95/	B	DM/593
		3º EIXO	DM/593
MB-180 D	94/96	F	DP/413
		-	-
SPRINTER 310 D	97/	B	DP/410
		F	-

PUMA

CAMINHÃO 4 T	79/87	F	-
		B	DF/672
CAMINHÃO 914	89/	F	DP/407
		B	DF/672

RENAULT

TRAFIC	91/	F	DP/415
		B	-

SCANIA

L-75	58/63	F	-
L/LS,LT,B-76	64/71	B	DS/723
		3º EIXO	DS/724
L/LS, B 100	71/76		
L, LS 101	78		
L, LS, LT, B 110	72/82		
L, LS, LT, B 111	76/81	F	DS/724
BR-115	75/82		
BR-116	76/82		
F-112/K-112/S-112	83/91		
L-112 URBANO	90/91		
R-112 H/T-112 H	81/91		
R-112 MA/T-112 MA	81/84		
F-113/K-113	91/93	B	DS/726
L-113 URBANO	91/93		
S-113/R-113 H/T-113 H	91/93		
RODAS RAIADAS			
F-113/K-113			
L-113 URBANO		F	DS/728
S-113/R-113 H	93/		
T-113 H		B	DS/730
RODAS RAIADAS			
F-112/K-112/S-112	86/91		
L-112 URBANO	90/91	F	DS/723
R-112 H/T-112 H	90/91		
F-113/K-113	91/93		
L-113 URBANO	91/93	B	DS/727
S-113/R-113 H/T-113 H	91/93		
RODAS A DISCO			
F-113/K-113			
L-113 URBANO	93/	F	DS/729
S-113/R-113 H/T-113 H		B	DS/731
RODAS A DISCO			
S-112 ARTICULADO	83/91		
R-112 E/T-112 E	81/91	F	DS/724
T-112 H/R-112 H	81/91		
S-113 ARTICULADO	91/93	B	DS/726
R-113 E/T-113 E	91/93		
R-113 H/T-113 H	91/93	3º EIXO	DS/726
RODAS RAIADAS			

DUROLINE'S APPLICATION TABLE PRODUCTS

MARK AND MODEL	YEAR	LOCALIZATION	DUROLINE OR FMSI REFERENCE
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SCANIA (Continuation)

S-113 ARTICULADO R-113 E/T-113 E R-113 H/T-113 H RODAS RAJADAS	93/	F B 3º EIXO	DS/728 DS/730 DS/730
S-112 ARTICULADO S-113 ARTICULADO R-112 H/R-112 E T-112 H/T-112 E R-113 H/T-113 E T-113 H/T-113 E RODAS A DISCO	86/91 91/94 90/91 90/91 91/93 91/93	F B 3º EIXO	DS/723 DS/727 DS/727
S-113 ARTICULADO R-113 E T-113 E R-113 H T-113 H RODAS A DISCO	93/	F B 3º EIXO	DS/729 DS/731 DS/731
KT-112 KT-113 RODAS RAJADAS	83/91 91/93	F B 3º EIXO	DS/724 DS/726 DS/724
K-113 T RODAS RAJADAS	93/	F B 3º EIXO	DS/728 DS/730 DS/728
KT-112 KT-113 RODAS A DISCO	86/91 91/93	F B 3º EIXO	DS/723 DS/727 DS/723
K-113 T RODAS A DISCO	93/	F B 3º EIXO	DS/729 DS/731 DS/729
LK, KS-140 L, LKS, LKT-141 R-142 H/T-142 H T-142 MA T-143 H/R-143 H RODAS RAJADAS	75/78 79/81 81/81 81/84 91/93	F B	DS/724 DS/726
T-143 H R-143 H RODAS RAJADAS	93/96	F B	DS/728 DS/730
R-142 H/T-142 H R-143 H/T-143 H RODAS A DISCO	90/91 91/93	F B	DS/723 DS/727
T-143 H R-143 H RODAS A DISCO	93/96	F B	DS/729 DS/731
R-142 E/R-142 H T-142 E/T-142 H R-143 E T-143 E/T-143 H R-143 H RODAS RAJADAS	81/91 81/91 91/92 91/93 91/93	F B 3º EIXO	DS/724 DS/726 DS/726
T-143 E R-143 H T-143 H RODAS RAJADAS	93/96	F B 3º EIXO	DS/728 DS/730 DS/730
R-142 E/R-142 H T-142 E/T-142 H R-143 E T-143 E/T-143 H R-143 H RODAS A DISCO	90/91 90/91 91/92 91/93 91/93	F B 3º EIXO	DS/723 DS/727 DS/727
T-143 E R-143 H T-143 H RODAS A DISCO	93/96	F B 3º EIXO	DS/729 DS/731 DS/731
P-93	95/	F B	DS/729 DS/731
F/L-94 4x2 P/R/T-94 4x2 P/R/T-114 4x2 K-124 4x2 P/R/T-124 4x2	98/	F B	DS/730 DS/731

MARK AND MODEL	YEAR	LOCALIZATION	DUROLINE OR FMSI REFERENCE
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SCANIA (Continuation)

P/R/T-94 6x2 P/R/T-94 6x4 P/R/T-114 6x4 K-124 6x2 P/R/T-124 6x2 P/R/T-124 6x4	98/	F B 3º EIXO	DS/730 DS/731 DS/731
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TOYOTA

JEEP PICK-UP PERUA	SÉRIES OJ-40/45 OJ-50/55	67/92	F B	DT/652 DT/652
JEEP PICK-UP PERUA		93/96	F B	DT/654 DT/652
JEEP PICK-UP PERUA		96/	F B	DP/403 DT/652

VOLVO

N-10 4x2 NL-10 4x2 N-12 4x2 NL-12 4x2	81/89 89/93 80/89 89/93	F B	DV/888 DV/889
N-10 6x4 NL-10 6x4 NL-10 6x2 N-12 6x2 N-12 6x4 NL-12 6x2 NL-12 6x4	80/89 89/93 90/93 81/89 89/93	F B 3º EIXO	DV/888 DV/889 DV/889
NL-10 4x2 NL-10 6x4 NL-12 4x2 NL-12 6x2 NL-12 6x4	93/98 93/98 93/98 93/97 93/98	F B 3º EIXO	DV/888 DV/889 DV/888
FH-12/380 (GLOBETROTTER) IMPORTADO	94/97	F B	DV/898 DV/900
FH-12/380 (GLOBETROTTER) NACIONAL	98/	F B	DV/903 DV/904
B-58 E 4x2 B-58 M 4x2 RODA RAJADA	80/98 89/98	F B	DV/888 DV/889
B-10 M 4x2 RODA RAJADA	86/96	F B	DV/888 DV/890
B-10 M 4x2 B-58 E 4x2 B-58 M 4x2 RODA A DISCO	89/98	F B	DV/888 DV/889 DV/890
B-58 E 6x2 B-10 M 6x2 RODA RAJADA	80/86 86/89	F B 3º EIXO	DV/888 DV/890 DV/888
B-10 M 6x2 RODA A DISCO	86/98	F B 3º EIXO	DV/888 DV/889 DV/890
B-12 IMPORTADO	94/96	F B 3º EIXO	DV/888 DV/889 -
B-12 B-7R NACIONAL	96/98/	F B	DV/889 DV/890

MARK AND MODEL	YEAR	LOCALIZATION	DUROLINE OR FMSI REFERENCE
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VOLKSWAGEN

VW 11.130 VW 13.130 VW 11.160 D-1400 VW 11.140 VW 12.140 VW 14.140 FREIO VARGA	81/96 81/86 85/86 83/85 87/89 87/89 87/89	F B	DFW/980 DW/917
VW 11.130 VW 13.130 VW 11.160 D-1400 VW 11.140 VW 12.140 VW 14.140 ADAPTAÇÃO MASTER	81/86 81/86 85/86 83/85 87/89 87/89 87/89	F B	DW/918 DW/919
VW 11.140 FREIO A AR BENDIX	89/90	F B	DFW/983 DFW/984
VW 11.140 VW 12.140 VW 12.140 H VW 12.170 BT FREIO A AR MASTER	91/91/91/97/91/89/90	F B	DW/986 DFW/987
VW 12.140 VW 14.140 VW 14.150 VW 14.200 VW 14.170 BT VW 14.220 VW 22.140 FREIO A AR MASTER	90/91 89/91 91/91/97/91/89/90	F B	DW/986 DFW/988
VW 22.140 VW 22.160 FREIO VARGA	88/89 85/87	F B 3º EIXO	DFW/980 DW/917 DW/917
VW 22.140 VW 22.160 ADAPTAÇÃO MASTER	88/89 85/87	F B 3º EIXO	DW/918 DW/919 DW/919
VW 14.170 VW 16.170 VW 14.210 VW 16.210 VW 16.210 H FREIO A AR MASTER	88/89 88/89 88/91 88/90 88/90	F B	4524-B 4514-G
VW 16.170 VW 16.220 VW 16.300 VW 22.200 VW 24.220 VW 24.250 VW 35.300 VW 35.300 CL VW B 16.180 (ÔNIBUS) FREIO A AR MASTER	90/96 90/96 97 90/95 95/90/90/97 93/97	F B	DFW/987 DFW/988
VW B 16.210 (ÔNIBUS) FREIO MASTER	98/	F B	DFW/988 DFW/910
VW 16.170 BT VW 16.200 VW 16.220 FREIO MASTER	97/97/97/	F B 3º EIXO	DFW/987 DFW/988 DFW/988
VW 6-80 VW 6-90 VW 7-90 VW 7-90 S VW 7-110 S	82/86 82/93 87/93	F B	DW/955 DW/955
VW 7-110 VW 8-140 FREIO A AR MASTER	93/	F B	DW/977 DW/977

DUROLINE	CROSS REFERENCE LIST		
	FMSI	BFMC	WVA
2039	2039	CV/62/63/1	
2042	2042	FD/57/58/1	
2060	2060	FD/90/91/1	
4705	4705		
4707	4707		
4709	4709		
2026-T	2026-T		
2042-A	2042-A	FD/57/58/1 A	
2080-T	2080-T		
4195-B	4195	AW/23/2	
4311	4311		
4514 F	4514 F		
4514 G	4514 G		
4515 C	4515 C	IL/66/67/3	
4515 G	4515 G		
4524 B	4524 B	TI/11/12/1	
4564 A	4564 A		
DC 332	CA-32		19365/6
DC 718	4718		
DFW 983	4693		
DM 576 (15MM)	1317	MB/56/2	17279
DM 577	4694	MP/29/1	17682
DM 580	1305	MB/65/1	17105
DM 581	1304	MPB/66/1	19182
DM 582	4697		
DM 583	4695	MP/30/1	17683
DM 584	4671	MP/31/1	19486
DM 585		MP/32/1	19487
DM 586	1320	MB/72/73/1	15580/1
DM 588		MB/36/1	19488
DM 590	4656	MB/74/75/1	19579/80
DM 591	4657	MB/76/77/1	19581/2
DS 723		SV/8/1	19075
DS 724		SV/26/1	17161
DS 726		SV/27/1	19393
DS 727			
DS 728		SV/39	
DS 729		SV/40	
DS 730		SV/41	
DS 731		SV/42	
DV 888			
DV 889			
DV 890	4698	VL/81/82/1	19799/800
DV 898			19938
DV 899			19939
DV 900			19940
		BC/36/1	19032
		BC/37	19034
		BC/37/1	19094
	4551 ANC	FU/5/1	19369
	4551 CAM	FU/4/1	19370
	4602	CW/4/1	19384
	4664 S	V/76/1	19562
	4664 L	VL/77/1	19563
		PD/7/1	19877
		PD/8/1	19878
		PD/3	19879

850 Main Street
P.O. Box 1580

A-35 11/90

Bridgeport, Connecticut 06601

797909#### FT PROD #### FT INCOMING
{3100} Sender: 021000089 CITIBANK
{3400} Receiver: 221172186 PEOPLES SAV BK
{1510} Type Code: 1000
{5000} Originator: D003290204587

####NORMAL MSG/ALCTG ENTRY####
{2000} Amount: \$2,300.00
{3600} Bus Function Code: CTR

N.A. INDUSTRIAL FRICTION
11475 NW. 49TH DR. CORAL SPRING S F
L 33076-21

{6000} DUE to BNF Info: DUE to BNF Info: A MEMBERSHIP
{5100} Originator FI: BRCHXUNX58
CITIBANK FLORIDA
C/O BUSINESS ACCESS
1 COURT SQUARE

Rec'd.
3/16/00

INPUT COPY

people's bank

DOMESTIC WIRE TRANSFER - INCOMING

850 Main Street
P.O. Box 1580
Bridgeport, Connecticut 06601

A-35 11/90

797910

{4200} Beneficiary:

LONG ISLAND CITY, NY 11120
D0117003629
FMSI

{4100} Beneficiary's FI: PEOPLES SAVINGS BANK
P.O. BOX 27
BRIDGEPORT CT

{1520} IMAD: 20000315B1Q8023C001965
{3320} Sender Ref: G0000751662201
{1110} Timestamp: 03151040FT01
{1120} OMAD: 20000315B1Q19E1D00010503151040FT01

INPUT COPY

people's bank

DOMESTIC WIRE TRANSFER - INCOMING

FMSI 10054

FRICITION MATERIALS STANDARDS INSTITUTE, INC.
588 MONROE TURNPIKE, MONROE, CT 06468

TELEPHONE (203) 452-1877
FAX (203) 452-7951
E-MAIL: FMSIINC@aol.com

April 6, 2000

TO: Officers and Board of Directors
SUBJECT: Application for Regional Membership Filed by
Duroline S.A.

Enclosed is a copy of the Application for Regional Membership
filed by Duroline S.A. The complete address of the application
is:

Duroline S.A.
Rua Gerson Andreis, 366
Distrito Industrial
95112-130 Caxias Do Sul - RS
Brasil

The date of incorporation is July 1988. They manufacture brake
blocks and disc pads. The application was signed by Mr. Ivo
Roberto Dall'Agnol, Director and the first years annual dues
payment has been received.

The Membership Committee has now completed its review of the
application and recommend its acceptance. A copy of the
application is enclosed. Would you kindly review the application,
complete the ballot and return it to the Institute.

Ballots are enclosed with Directors copies only. Please return
the ballot by fax to 203-452-7951 (cover page not necessary).
Thank you.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

4/10 M. Chevalier
4/10 R. Scott
4/11 P. Healey
4/11 R. Cross
4/12 D. Delvy
4/18 R. Neal
4/18 R. Burgess

7-

FMSI 10055

FRICITION MATERIALS STANDARDS INSTITUTE, INC.
588 MONROE TURNPIKE, MONROE, CT 06468

TELEPHONE (203) 452-1877
FAX (203) 452-7951
E-MAIL: FMSIINC@aol.com

March 16, 2000

TO: Membership Committee

SUBJECT: Application for Regional Membership Filed by
Duroline S.A.

Enclosed is a copy of the Application for Regional Membership
filed by Duroline S.A. The complete address of the application
is:

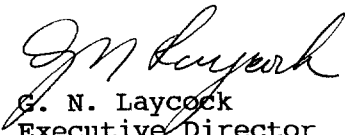
Duroline S.A.
Rua Gerson Andreis, 366
Distrito Industrial
95112-130 Caxias Do Sul - RS
Brazil

The date of incorporation is July 1988. They manufacture brake
blocks and disc pads. The application was signed by Mr. Ivo
Roberto Dall'Agnol, Director and the first years annual dues
payment has been received.

Would you please review the application, complete the ballot and
return it by fax to 203-452-7951 (cover page not necessary).
Thank you.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

*PITENLAY
RCROSS
M. GREENBERG
T. MOTT*

A P P L I C A T I O N F O R M E M B E R S H I P

NOTE: ALL QUESTIONS MUST BE ANSWERED IN ENGLISH

TO THE BOARD OF DIRECTORS OF FRICTION MATERIALS STANDARDS INSTITUTE, INC.

The undersigned hereby applies for membership in the FRICTION MATERIALS STANDARDS INSTITUTE, INC., as a Regional Member, and certified to the following:

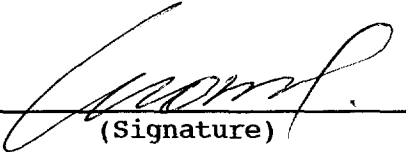
1. Name of Applicant Company: DUROLINE S.A.
2. State or Province: CAXIAS DO SUL - RS. BRASIL
3. Address of Principal Office: RUA GERSON ANDREIS, 366
4. Date of Incorporation: JULY 26, 1988
5. Length of time dealing with friction materials: 11 YEARS
6. Do you manufacture friction materials from the basic materials or do you buy partially finished products from other companies?
WE MANUFACTURE FRICTION MATERIALS FROM THE BASIC MATERIALS.
7. Type of friction materials manufactured, and approximate annual capacity of plant (Pieces or Tons):
BRAKE BLOCKS - 400.000 SETS/8 DISC PADS - 40.000 SETS/4
8. State approximate amount of said materials manufactured in commercial quantities (Pieces or Tons): THE SAME OF ITEM 7.
9. Do you plan to market your friction product in the United States? YES
10. Do you list the materials you manufacture in catalogs or in some other form? If so, please furnish us with a copy of same:
THE MATERIALS ARE LISTED IN CATALOGS. SEE ATTACHED.

APPLICATION FOR MEMBERSHIP

Page 2

11. Reference as to financial strength in relation to operations
(Balance sheet or Credit References): _____
ATTACHED BALANCE SHEET.
12. Is plant owned by applicant or leased? OWNED BY APPLICANT.

The undersigned hereby acknowledge receipt of a copy of the Constitution and By-Laws of the Institute and agrees that, if elected to membership, it will accept and be bound by the said Constitution and By-Laws, together with any amendments that may from time to time be made thereto.


(Signature)

IVO ROBERTO DALL'AGNOL - DIRECTOR
(Print or Type Name and Title)

Signature must be that of Officer, Principal or Manager of manufacturer applicant.

PLEASE LIST COMPLETE COMPANY NAME, MAILING ADDRESS, TELEPHONE NUMBER, FAX NUMBER AND EMAIL ADDRESS (IF AVAILABLE).

DUROLINE S.A.

RUA GERSON ANDREIS, 366

DISTRITO INDUSTRIAL

95112-130 CAXIAS DO SUL - RS

BRASIL

PHONE / FAX: (55 54) 227.2200

EMAIL: duroline@duroline.com.br