



M98P Ford Motor Company Approved Source List June 2018

Material Spec No	Spec Status	Log No	Supplier Code	Supplier Full Name	Trade Name	Tox No.	Tox Status Code	Review Region	Approved Source Remarks	Approval Date
ESB-M98P1-A	N	32386	ZZZZZ	ANY RELIABLE SUPPLIER	BENZOPHENONE	IRB029	B1	NA	USED BY PART SUPPLIERS ONLY	10/17/1984
WSS-M98P3-B	N	77435	AEV7A	GRUPO ANTOLIN VOSGES SAS	SUNVISOR PERFORMANCE	IRB022	B1	NA		08/20/2009
WSS-M98P3-B	N	76168	ZZZZZ	ANY RELIABLE SUPPLIER	SUN VISOR ASSEMBLY	IRB030	B1	NA		05/15/2007
WSK-M98P5-A	N	77597	ZZZZZ	ANY RELIABLE SUPPLIER	TEST TO WSK-M98P5-A	IRB031	B1	NA		12/16/2009
WSK-M98P10-A	N	77302	ZZZZZ	ANY RELIABLE SUPPLIER	LAMP ASSEMBLY	IRB029	B1	NA		05/12/2009
WSB-M98P11-A2	N	62378	E872G	REHAU AUTOMOTIVE LLC	TBD	IRB029	B1	NA	MOLDER	08/05/1994
WSS-M98P12-A	N	73294	F9C9J	AUTOLIV AUTOMOTIVE SAFETY PRODUCTS	ROHM & HAAS ST696 URETHANE PAINTED STEERING W	IRB029	B1	NA	FSS, Autoliv Columbia City. Rohm & Haas ST696 soft touch paint, Medium Parchment BJCA color evaluated. FL & AZ results pending. This paint selected for improved cold flexibility. Caution: Verify results from SDS wear rub test.	03/07/2001
WSS-M98P12-A	N	73839	F9C9J	AUTOLIV AUTOMOTIVE SAFETY PRODUCTS	CAVALLI LAMINATE TECHNOLOGY, DARK PALDEO	IRB030	B1	NA	Wood laminate cut to shape by Cavalli in Italy then sent to Cavalli-Volantes in Mexico for finishing. This approval is for the wood section of the steering wheel only. Heat age color change rating 3-yellowing, but not objectionable.	06/05/2002
WSS-M98P12-A	N	74053	F9C9J	AUTOLIV AUTOMOTIVE SAFETY PRODUCTS	ROHM & HAAS AB698 X2 PAINTED URETHANE STEERI	IRB029	B1	NA	Rohm & Haas AB 698-X2 urethane paint. In-mold painted on Otto Bock W700-V, HFC-134A blown urethane foam. Initial approval for BJCA, ZU4A, BJ5A, ZUCA, JA6A colors. This paint selected for improved flexibility. FL & AZ started 9-3-01.	09/05/2002
WSS-M98P12-A	N	73362	I993N	TRW AUTOMOTIVE HOLDING CO	OTTOBOCK WATER BLOWN URETHANE W/SHERWIN POLAN	IRB029	B1	NA	Otto Bock W800 (water blown) urethane foam in-mold painted with Sherwin Williams Polane E G64 paint for steering wheel. TRW replacing solvent blown W700 (R134A).	06/04/2001
WSS-M98P12-A	N	74518	M1F3A	JOYSON SAFETY SYSTEMS ACQUISITION LLC	RED SPOT 458W (1K) OVER TAKATA PETRI PW53 (2K)	IRB029	B1	NA	Red Spot 458W (1K) water based coating. In mold painted on Takata Petri PW53 (2K) urethane foam, by Takata Petri	10/03/2003
WSS-M98P12-A	N	74517	R7YAA	TRW SAFETY SYSTEMS	RED SPOT 458W (1K) OVER OTTOBOCK W800 URETHAN	IRB029	B1	NA	Red Spot 458W 1K water based coating. In mold painted on Ottobock W800 water based urethane foam, by TRW.	10/03/2003
WSS-M98P12-A	N	73075	U5MSJ	KEY SAFETY SYSTEMS INC	NEWPORT BURL REAL WOOD VENEER STEERING WHEEL	IRB029	B1	NA	FSS; Breed. Newport Burl DEW 98. Wood veneer application moved from Italy to VH1 in Valle Hermoso Mexico. Urethane foam-VH3, Leather wrap-VH1. Exceptions: Fogging meets WSS-M1F21-B; Odor rating Wet 4, Dry 4, typical of current production.	07/26/2000
WSS-M98P13-A	N	75701	ZZZZZ	ANY RELIABLE SUPPLIER	EXTERIOR MOLD IN COLOR PLASTIC	IRB030	B1	NA		08/09/2006
WSS-M98P13-B	N	76505	ZZZZZ	ANY RELIABLE SUPPLIER	EXTERIOR PLASTIC PERFORMANCE, MOLD-IN-COLOR	IRB030	B1	NA		10/12/2007
WSS-M98P14-A1	A	78986	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	LOPERM 4000 AME	IRB031	B1	NA	PA 6/12 outer layer	03/19/2012
WSS-M98P14-A1	A	78987	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	LOPERM 4540A	IRB031	B1	NA	PA 6/12 cover, Conductive fuel line	03/19/2012
WSS-M98P14-A1	A	79009	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	LOPERM 4000A	IRB031	B1	NA	Low permeation fuel tube for vapor applications	03/20/2012
WSS-M98P14-A1	A	79312	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	MONOWALL PA6/10	IRB031	B1	NA	Polyamide PA6/10	07/13/2012
WSS-M98P14-A1	A	80694	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	LOPERM 3000A	IRB031	B1	NA	PA12 outer layer/ETFE, high temperature, non-conductive	08/06/2014



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WSS-M98P14-A1	A	80695	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	LOPERM 3500A	IRB031	B1	NA	PA12 outer layer/ETFE, high temperature, conductive	08/06/2014
WSS-M98P14-A1	A	81475	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	PA612 MONOWALL CVT	IRB031	B1	NA	PA612 Monowall CVT vapor line	08/13/2015
WSS-M98P14-A1	A	82161	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	LOPERM 6000	IRB031	B1	NA	PA9T inner layer with Hi Temp PA12 outer layer (120C continuous and 135C peak temperature)	06/24/2016
WSS-M98P14-A1	A	82967	B215G	COOPER STANDARD AUTOMOTIVE FHS INC	POLY1000	IRB031	B1	NA	Monowall polyethylene tube for in tank use only. Approved for all regions: NA, EU, SA, APA	03/30/2017
WSS-M98P14-A1	A	80228	B8891	TI GROUP AUTOMOTIVE SYSTEMS	PERMBLOCK 562-50.	IRB031	B1	NA	Flex fuel, Multi-layer tubing (MLT), conductive: PA12 (outer layer), EVOH, PA12, PA12 conductive (inner layer) Size: 12.00mm OD x 1.00mm Wall; 12.70mm OD x 1.00mm Wall; 15.20mm OD x 1.25mm Wall; 16.00mm OD x 1.25mm Wall; 18.00mm OD x 1.50mm Wall	10/24/2013
WSS-M98P14-A1	A	80230	B8891	TI GROUP AUTOMOTIVE SYSTEMS	PERMBLOCK 550-50	IRB031	B1	NA	Flex fuel MLT (multi-layer tubing): PA12 (outer), EVOH, PA12 (inner) layer. Tube Size: 12.00 mm OD x 1.00 mm Wall 12.70 mm OD x 1.00 mm Wall 15.20 mm OD x 1.25 mm Wall 16.00 mm OD x 1.25 mm Wall 18.00 mm OD x 1.50 mm Wall	10/24/2013
WSS-M98P14-A1	A	81579	B8891	TI GROUP AUTOMOTIVE SYSTEMS	P2B 562	IRB031	B1	NA	PA612/EVOH/PA612/ETFE ESD CONDUCTIVE. GOOD FOR ALL REGIONS	10/02/2015
WSS-M98P14-A1	A	79108	BVKSA	TOYODA GOSEI NORTH AMERICA CORP	TGFS PA-12	IRB031	B1	NA	Polyamide PA-12 - Core Fuel Systems Materials Engineering.	04/26/2012
WSS-M98P14-A1	A	79159	BVKSA	TOYODA GOSEI NORTH AMERICA CORP	TGFS PA-612	IRB031	B1	NA	Polyamide PA-612 - Core Fuel Systems Materials Engineering	05/21/2012
WSS-M98P14-A1	A	79716	BVKSA	TOYODA GOSEI NORTH AMERICA CORP	PERMATEC 402	IRB031	B1	NA	PA12 outer layer with PA9T inner layer - Application: External vapor bundle	01/31/2013
WSS-M98P14-A1	A	79717	BVKSA	TOYODA GOSEI NORTH AMERICA CORP	PERMATEC 112	IRB031	B1	NA	PA12 outer with a EFEP conductive inner layer. Application: Liquid fuel	01/31/2013
WSS-M98P14-A1	A	79718	BVKSA	TOYODA GOSEI NORTH AMERICA CORP	PERMATEC 313	IRB031	B1	NA	PA12 outer layer, ETFE middle layer, EFEP conductive inner layer. Application: liquid fuel	01/31/2013
WSS-M98P14-A1	A	79719	BVKSA	TOYODA GOSEI NORTH AMERICA CORP	PERMATEC 501	IRB031	B1	NA	PA12 outer layer. Application: Internal tank vapor	01/31/2013
WSS-M98P14-A1	A	79720	BVKSA	TOYODA GOSEI NORTH AMERICA CORP	PERMATEC 601	IRB031	B1	NA	PA 612 outer layer. Application: Internal tank vapor	01/31/2013
WSS-M98P14-A1	A	79110	C757L	COOPER STANDARD AUTOMOTIVE INC	LP4540AMEX	IRB031	B1	NA	Conductive EVOH construction with PA6/12 jacket - Core Fuel Systems Materials Engineering	04/26/2012
WSS-M98P14-A1	A	79113	C757L	COOPER STANDARD AUTOMOTIVE INC	LP4500AMEX	IRB031	B1	NA	Non-conductive EVOH construction with PA6/12 jacket - Core Fuel Systems Materials Engineering	04/26/2012
WSS-M98P14-A1	A	83814	EPNUA	COOPER STANDARD AUTOMOTIVE (KUNSHAN) CO.,LTD	COOPER STANDAR LP 3000A	IRB031	B1	NA	PA12 outer layer/ETFE, high temperature, non-conductive approved site: kunshan plant	05/16/2018
WSS-M98P14-A1	A	83676	GKHMA	HEBEI CHINAUST AUTOMOTIVE PLASTICS CORP.,LTD	TUBE MLT 4540	IRB031	B1	NA	Construction, Inner to layer: VESTAMID LX9102/Vestamid SX8002/EVAL	02/26/2018
WSS-M98P14-A1	A	78850	GMW7A	NITTA MOORE COMPANY	PBN-A118	IRB031	B1	NA	LA170B/Vestamid SX8002/VESTAMID X7293	02/09/2012



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WSS-M98P14-A1	A	80431	K0R6A	HUTCHINSON SNC	STU1505060	IRB031	B1	NA	Fuel tube PA12/EVOH/PA12.	03/15/2014
WSS-M98P14-A1	A	82968	K0R6A	HUTCHINSON SNC	STU1322060	IRB031	B1	NA	PA9Te-(conductive inner tube), PA9T tube, PA12 cover. Good for all regions: NA, EU, SA, APA	03/30/2017
WSS-M98P14-A1	A	82969	K0R6A	HUTCHINSON SNC	STU1206060	IRB031	B1	NA	PA9T tube/PA12 cover. Good for all regions: NA,EU,SA,APA	03/30/2017
WSS-M98P14-A1	A	82972	K0R6A	HUTCHINSON SNC	STU1205060.	IRB031	B1	NA	ETFEe- tube with a PA12 cover	03/31/2017
WSS-M98P14-A1	A	83028	K0R6A	HUTCHINSON SNC	STU1507060.	IRB031	B1	NA	PA12e- tube / EVOH barrier layer / PA12 cover.	05/05/2017
WSS-M98P14-A1	A	78995	K760B	VERITAS GUMMIWERKE AG	VERITAS 1000.1	IRB031	B1	NA	PBT/PA12, non-conductive, vapor use only. Europe/North America sourced.	03/19/2012
WSS-M98P14-A1	A	78996	K760B	VERITAS GUMMIWERKE AG	VERITAS NT.9	IRB031	B1	NA	PA12, Monowall fuel tubing, In Tank and Vapor applications. Europe and North America sourced.	03/19/2012
WSS-M98P14-A1	A	78997	K760B	VERITAS GUMMIWERKE AG	VERITAS 7040.1	IRB031	B1	NA	ETFE/PA12 Conductive fuel tubing. Europe and North America sourced.	03/19/2012
WSS-M98P14-A1	A	78998	K760B	VERITAS GUMMIWERKE AG	VERITAS 2040.1	IRB031	B1	NA	PA12/PA12/PVDF/PA12 Conductive fuel tubing, Europe and North America sourced.	03/19/2012
WSS-M98P14-A1	A	78999	K760B	VERITAS GUMMIWERKE AG	VERITAS 2030.1	IRB031	B1	NA	PA12/PVDF/PA12, Non-conductive fuel tubing. Europe and North America Sourced	03/19/2012
WSS-M98P14-A1	A	79000	K760B	VERITAS GUMMIWERKE AG	VERITAS 4540.1	IRB031	B1	NA	PA12/PA12/EVOH/PA12 Conductive fuel tubing, Europe and North America sourced.	03/19/2012
WSS-M98P14-A1	A	79001	K760B	VERITAS GUMMIWERKE AG	VERITAS 4500.1	IRB031	B1	NA	PA12/PA12/EVOH/PA12 Non-Conductive fuel tubing. Europe and North America Sourced.	03/19/2012
WSS-M98P14-A1	A	79076	M549A	3M COMPANY	DYNEON TFM-2001	IRB031	B1	NA	PTFE barrier layer - Core Fuel Systems Materials Engineering.	04/09/2012
WSS-M98P14-A1	A	79157	M5Q8A	DAIKIN INDUSTRIES LTD	EFEP RP5000 (PERMEATION BARRIER LAYER)	IRB031	B1	NA	EFEP Flex and Bio-Diesel Fuel Permeation barrier Layer - Core Fuel Systems Materials Engineering	05/21/2012
WSS-M98P14-A1	A	79160	M5Q8A	DAIKIN INDUSTRIES LTD	EFEP RP5000 AS (PERMEATION BARRIER LAYER)	IRB031	B1	NA	EFEP AS Anti Static Flex Fuel and Bio-Diesel Fuel Barrier Layer - Core Fuel Systems Engine Engineering	05/21/2012
WSS-M98P14-A1	A	79168	M5Q8A	DAIKIN INDUSTRIES LTD	ETFE EP610 (PERMEATION BARRIER LAYER)	IRB031	B1	NA	ETFE Flex and Bio-Diesel Fuel Permeation Barrier Layer - Core Fuel Systems Materials Engineering	05/21/2012
WSS-M98P14-A1	A	79169	M5Q8A	DAIKIN INDUSTRIES LTD	ETFE EP610 AS (PERMEATION BARRIER LAYER)	IRB031	B1	NA	ETFE AS Anti Static Fuel and Bio-Diesel Permeation Barrier Layer - Core Fuel Systems Materials Engineering	05/21/2012
WSS-M98P14-A1	A	81566	M5Q8A	DAIKIN INDUSTRIES LTD	LP-1000	IRB031	B1	NA	CPT (Permeation Barrier Layer)	10/02/2015
WSS-M98P14-A1	A	79641	P444U	MARTINREA INTERNATIONAL INC.	MT P-CAP	IRB031	B1	NA	PA612/ETFE mid-temp flex fuel tubing	12/11/2012
WSS-M98P14-A1	A	79777	P444U	MARTINREA INTERNATIONAL INC.	X-PERM	IRB031	B1	NA	PA12/EVOH/PA12 flex fuel tubing	02/27/2013
WSS-M98P14-A1	A	79778	P444U	MARTINREA INTERNATIONAL INC.	X-PERMC	IRB031	B1	NA	PA12/EVOH/PA12 Flex fuel tubing	02/27/2013
WSS-M98P14-A1	A	81190	P444U	MARTINREA INTERNATIONAL INC.	MT P-CAP2	IRB031	B1	NA	PA612/ETFE non-conductive mid-temp flex fuel tubing	05/15/2015
WSS-M98P14-A1	A	81192	P444U	MARTINREA INTERNATIONAL INC.	MT P-CAP3	IRB031	B1	NA	PA612/ETFE conductive mid-temp flex fuel tubing	05/15/2015
WSS-M98P14-A1	A	82089	P444U	MARTINREA INTERNATIONAL INC.	P-CAP2	IRB031	B1	NA	PA12 outer layer/ETFE non-conductive	06/02/2016
WSS-M98P14-A1	A	82090	P444U	MARTINREA INTERNATIONAL INC.	P-CAP3	IRB031	B1	NA	PA12 outer layer/ETFE conductive	06/02/2016
WSS-M98P14-A1	A	80772	R7QRA	FRANKISCHE PLASTIKS GMBH	FIP MLT3.	IRB031	B1	NA	PE/PA6 inner. Use for inside fuel tank vent pipe only.	09/30/2014
WSS-M98P14-A1	A	80773	R7QRA	FRANKISCHE PLASTIKS GMBH	FIP MLT5-B	IRB031	B1	NA	PE/EVOH/PA12 inner Used for top of fuel tank vent pipe	09/30/2014
WSS-M98P14-A1	A	81470	S44AE	KONGSBERG AUTOMOTIVE	FLUORO-COMP HOSE.	IRB031	B1	NA	POLYTETRAFLUOROETHYLENE (PTFE), CONTINUOUS FILAMENT GLASS BRAID REINFORCED HOSE for use in flex fuel	08/13/2015



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WSS-M98P14-A1	A	81907	T805J	DELFINEN US INC	MLT4500-D	IRB031	B1	NA	Multilayer tubing PA12 iner layer/EVOH barrier/PA12 outer layer. This is a non-metallic fuel vapor tube.	04/23/2016
WSS-M98P14-A1	A	82590	T805J	DELFINEN US INC	MLT 4540-D.	IRB031	B1	NA	PA12/EVOH/PA12 conductive inner layer	09/29/2016
WSS-M98P14-A1	A	83457	T805J	DELFINEN US INC	PA612 MONOWALL	IRB031	B1	NA	PA612 mono-wall non-conductive for in-tank use.	11/01/2017
WSS-M98P14-A1	A	83458	T805J	DELFINEN US INC	MLT7040	IRB031	B1	NA	Multi layer tube: PA12 outer and EFEP inner tube	11/01/2017
WSS-M98P14-A1	A	83459	T805J	DELFINEN US INC	MLT7040 CONDUCTIVE	IRB031	B1	NA	Multi layer tube: PA12 outer layer and EFEP inner tube conductive	11/01/2017
WSS-M98P14-A2	A	79557	C013A	AVON AUTOMOTIVE	CADBAR 9204	IRB031	B1	NA	FKM inner hose material - Core Fuel Systems Materials Engineering approval based on years in service, low warranty, and low after market volums.	10/19/2012
WSS-M98P14-A2	A	81641	C013A	AVON AUTOMOTIVE	CADBAR 9920	IRB031	B1	NA	NBR inner layer/CPT barrier/NBR/CPE cover	11/13/2015
WSS-M98P14-A2	A	83843	DR3CB	MGI COUTIER MEXICO SA DE CV	CADBAR 9504	IRB031	B1	NA	ECO outer, aramid reinforcement, ECO, THV 815, FKM inner tube	05/31/2018
WSS-M98P14-A2	A	81493	FE7NA	FLUID ROUTING SOLUTIONS INC	CPT BARRIER HOSE	IRB031	B1	NA		09/14/2015
WSS-M98P14-A2	A	81498	FE7NA	FLUID ROUTING SOLUTIONS INC	DAYPERM	IRB031	B1	NA	Multilayer fuel hose. Dayperm-N (non-reinforced) Dayperm-R (reinforced)	09/14/2015
WSS-M98P14-A2	A	82759	FJXFA	NOBEL AUTOMOTIVE TENNESSEE LLC	NAT 1816 XDC	IRB031	B1	NA	NBR/PVC conductive hose for use in EU, SA, APA	01/05/2017
WSS-M98P14-A2	A	82761	FJXFA	NOBEL AUTOMOTIVE TENNESSEE LLC	NAT XD 1814	IRB031	B1	NA	NBR/PVC non-conductive fuel filler sensing hose only. For use in EU, SA, and APA.	01/05/2017
WSS-M98P14-A2	A	83474	FJXFA	NOBEL AUTOMOTIVE TENNESSEE LLC	NAT 4720 CBT	IRB031	B1	NA	NBR conductive inner layer/CPT barrier layer/NBR layer/CPE outer layer	11/13/2017
WSS-M98P14-A2	A	83476	FJXFA	NOBEL AUTOMOTIVE TENNESSEE LLC	NAT 4720R CBT	IRB031	B1	NA	NBR conductive inner layer/CPT barrier layer/NBR layer/CPE outer layer (Reinforced hose)	11/13/2017
WSS-M98P14-A2	A	79503	K760B	VERITAS GUMMIWERKE AG	XC-LINER CONDUCTIVE	IRB031	B1	NA	Core Fuel Systems Materials Engineering THV/ECO/para-Aramid/CSM cover Conductive	09/17/2012
WSS-M98P14-A2	A	80951	K760B	VERITAS GUMMIWERKE AG	VERICONFLEX	IRB031	B1	NA	F-TPV conductive inner barrier layer, ECO intermediate layer, para-Aramid reinforcement, CSM cover.	12/16/2014
WSS-M98P14-A2	A	81383	K760B	VERITAS GUMMIWERKE AG	VERICONFLEX	IRB031	B1	NA	F-TPV conductive inner barrier layer, ECO intermediate layer, para-Aramid reinforcement, CSM cover. Approved orig. for use in EU	07/24/2015
WSS-M98P14-A2	A	79559	P444T	MARTINREA INTERNATIONAL INC.	RE-E-P-CAP	IRB031	B1	NA	Elastomeric fuel line with permeation barrier - Core Fuel Systems Materials Engineering.	10/23/2012
WSS-M98P14-A2	A	80433	P444U	MARTINREA INTERNATIONAL INC.	GEN IV E-P-CAP.	IRB031	B1	NA	Fule hose, non-reinforced rubber, fuel/alcohol resistant, low permeation. Good for all regions.	03/15/2014
WSS-M98P14-A2	A	80698	P444U	MARTINREA INTERNATIONAL INC.	GEN III E-P-CAP	IRB031	B1	NA	Fuel hose, fuel/alcohol resistant, low fuel permeation. Good for all regions.	08/06/2014
WSS-M98P14-A2	A	80727	P444U	MARTINREA INTERNATIONAL INC.	GEN 1 E-P-CAP	IRB031	B1	NA	AEM outer layer/ETFE	08/28/2014
WSS-M98P14-A2	A	81906	P444U	MARTINREA INTERNATIONAL INC.	GEN IV E-P-CAP CONDUCTIVE	IRB031	B1	NA	CPE outer with ETFE conductive inner liner. Used for connecting fuel filler line to the fuel tank.	04/23/2016
WSS-M98P14-A2	A	83332	P444U	MARTINREA INTERNATIONAL INC.	REINFORCED GEN IV E-P-CAP CONDUCTIVE	IRB031	B1	NA	Good for all regions (NA, EU, APA, SA)	09/01/2017
WSS-M98P14-A2	A	81384	S5VXA	PASS GUMMIWERKE GMBH & CO KG	PASS 448 NBR/PVC	IRB031	B1	NA	NBR?PVC fuel filler hose	07/24/2015
WSS-M98P14-A3	A	78906	A68RB	SOLVAY ADVANCED POLYMERS	AMODEL AS-4133 HS	IRB031	B1	NA	Polyphthalamide - Core Fuel Systems Materials Engineering	02/17/2012