

Howmet Fastening Systems

Approved Supplier List 19 August-September 2020 ASL19

The attached Approved Supplier List 19 (ASL19) and Supplier Process Summary sheets reflects HFS approved suppliers who can perform work or who supply products and services to HFS as defined in HFS Policies and Procedures. This list supersedes all prior releases of the ASL 19. Please destroy/obsolete any such list in your possession.

The ASL 19 and the Procurement Oracle EBS systems are not directly linked. The ASL 19 is the database for approved suppliers who can perform work or services to HFS deliverable products. Suppliers who provide the products or services that are not incorporated into HFS deliverable products may not be listed on the ASL19 but listed in the Oracle EBS system.

Prior to purchase order placement each HFS site must review the ASL 19 to ensure the supplier is approved for the specific work, process, or service required. Requirements for adding new suppliers can be found in the Quality Assurance System Level 1 Document Section 12.

Customer approvals (listed in the comments section) are to be used as a general guideline when needing to procure services from customer approved sources. HFS sites should always ensure the ASL 19 approved source is current on the customers' approval supplier listing.

Billing addresses will not be listed in the ASL 19 usually. When applicable, references to billing addresses can be found in the comments section.

If you are aware of any errors found in the ASL 19, such as a change in supplier location, please notify Supply Chain Mgt. so the appropriate updates can be made.

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Supply Chain Mgr.
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All Suppliers

1 NON-DESTRUCTIVE TESTING

MAGNETIC PARTICLE INSPECTION	1.01	AMS 2301/AMS2640
MAGNETIC PARTICLE INSPECTION	1.02	AMS 2640
MAGNETIC PARTICLE INSPECTION	1.03	ASTM E1444
PENETRANT INSPECTION	1.04	AMS 2645/AMS2647
PENETRANT	1.05	ASTM E1417 (MIL-STD-6866)
RADIOGRAPHIC X-RAY	1.06	MIL-STD-453
ULTRASONIC INSPECTION	1.07	MIL-STD-2154/Customer requirements
ALLOY VERIFICATION	1.09	PER APPLICABLE SPEC.
PENETRANT INSPECTION	1.10	Per Customer specification/Ind. standard
MAGNETIC PARTICLE INSPECTION	1.11	ASTM E1444/ AMS 2640/ AMS2301
PENETRANT INSPECTION	1.12	ASTM E 1417 /AMS 2645 / AMS 2647
EDDY CURRENT testing	1.13	Industry/Customer Spec.
MAGNETIC PARTICLE INSPECTION	1.14	BAC 5424

2 THERMAL PROCESSING/BRAZING

HEAT TREAT ALUMINUM	2.01	AMS 2770/AMS 2759 series/MIL-H-6088
HEAT TREATING PER APPL. FULLERTON SPEC.	2.02	PS 600, PS 602
HEAT TREAT/SOLUTION HEAT TREAT	2.03	AMS-H-6875/ AMS 2750/AMS 5643
HEAT TREAT COPPER & CU. ALLOYS	2.04	MIL-H-7199
HEAT TREAT MAGNESIUM	2.05	MIL-H-6857
HEAT TREAT TITANIUM	2.06	MIL-H-81200
NITRIDING &/OR CARB. OF STEEL	2.07	MIL-S-6090
HEAT TREAT PER SITE/ CUST SPEC.	2.09	PER SITE /CUSTOMER SPEC
BRAZING	2.10	MIL-B-7883/AWS C 3.4/3.5/3.6
FUSION WELDING	2.11	MIL-STD-1595
FUSION WELDING	2.12	MIL-STD-2219 (GTAW)
FUSION WELDING	2.13	MIL-STD-2219 /AWS D17.1
RESIST WELDING	2.14	MIL-W-12332
RESIST WELDING	2.15	MIL-W-6858/MIL-W-6873
SOLDERING	2.17	MIL-STD-2000
SOLDERING	2.18	MIL-S-45734
SOLDERING	2.19	MIL-S-6872
ANNEAL/ PER APPLICABLE SPEC.	2.20	MP97-297
HEAT TREAT ALUMINUM	2.21	PER SPECIFICATION
HEAT TREAT PER PWA 11-17	2.23	PWA 11-17
AGEING OF TITANIUM 3-2.5	2.24	FULLERTON SPEC.

All Suppliers

2 THERMAL PROCESSING/BRAZING

HEAT TREAT	2.25	AMS 2694/ AMS 2759/3
HEAT TREAT TITANIUM	2.26	AMS 2801
THERMAL PROCESS FOR INCO	2.27	AS7466/AS7467
HEAT TREAT TITANIUM	2.27	AMS-H-81200
THERMAL PROCESS WASPLOY	2.28	AS7471
HEAT TREAT/SOLUTION HEAT TREAT	2.28	AMS 2757 Nitrocarbrize
HEAT TREAT/SOLUTION HEAT TREAT	2.29	AMS2759
HEAT TREAT	2.29	CONDITIONAL APPROVAL
HEAT TREAT	2.30	AMS 2771
HEAT TREAT TITANIUM	2.31	AS7461
HEAT TREAT	2.32	AMS5834
HEAT TREAT TITANIUM	2.33	305, 345,187

3 PLATING/SURFACE COATING

ANODIZE TITANIUM	3.01	AMS 2488
ANODIZE ALUMINUM	3.02	MIL-A-8625/Various Specs.
ANODIZE PER APPL. FULLERTON SPEC.	3.03	PS 126
BLACK OXIDE	3.04	AMS 2485
BLACK OXIDE	3.05	MIL-C-13924 Cl, 1,2,3, 4
BLACK OXIDE	3.06	MIL-DTL-13924 CL. 1,2,3,4,
BLACK OXIDE	3.07	MIL-F-495
CADMIUM PLATE	3.08	AMS 2400/ AMS2401/
CADMIUM PLATE	3.09	MIL-C-8837
CADMIUM PLATE	3.10	AMS QQ-P-416/ QQ-P-416
CADMIUM PLATE PER APPL. FULLERTON SPEC.	3.11	PS 120
CADMIUM FLUOBORATE	3.12	NAS 672
CHEM FILM ALUMINUM	3.13	MIL-C-5541/ MIL-DTL-5541
COPPER PLATE	3.14	AMS 2418
COPPER PLATE	3.15	MIL-C-14550
CHROMIUM PLATE	3.16	AMS 2406
CHROMIUM PLATE	3.17	MIL-C-14583
CHROMIUM PLATE	3.18	QQ-C-320
CHROMATE	3.19	ABP1-5058
DRI FILM LUBE	3.20	MIL-L-8937
DRI FILM LUBE	3.21	MIL-STD-46010/MIL-PRF-46010F
DRI FILM LUBE	3.22	MIL-L-81329

All Suppliers

3 PLATING/SURFACE COATING

EVERLUBE MICRO SEAL	3.23	AMS 2425
EVERLUBE MICRO SEAL	3.24	AMS 2526
GOLD PLATE	3.25	MIL-G-45204
ION VAPOR DEPOSITED ALUMINUM	3.26	MIL-DTL-83488
VACUUM DEPOSITED ALUMINUM	3.27	MIL-C-23217
MAGNESIUM CONVERSION COATING	3.28	MIL-M-3171
NICKEL PLATE	3.29	AMS 2403
NICKEL PLATE - DIFFUSED NI/CAD	3.30	AMS 2416
NICKEL ZINC ALLOY PLATE	3.31	AMS 2417
NICKEL PLATE (ELECTROLESS)	3.32	MIL-C-26074/AMS 2404
NICKEL PLATE (SULFAMATE NI.)	3.33	MIL-P-27418
NICKEL PLATE (ELECTRO DEP>)	3.34	QQ-N-290
NICKEL CAD DISSUSED (NICD)	3.35	PER SS 8488
PASSIVATION/CLEANING	3.36	MIL-S-5002/AMS 2700/AMS-QQ-P-35
PASSIVATION/CLEANING	3.37	AMS-QQ-P-35/MIL-S-5002/ASTM A967
PASSIVATION/CLEANING PER APPL. FULLERTON SPEC.	3.38	PS 309
PAINTING & POWDERED COATINGS	3.39	PER APPLICABLE SPEC.
PHOSPHATE COATING	3.40	AMS 2480
PHOSPHATE COATING	3.41	AMS 2481
PHOSPHATE COAT	3.42	PARKERIZE/MIL-DTL16232 TY Z & M CI 1,2,3
PHOSPHATE COATING	3.43	TT-C-490
PHOSPHATE/FLUORIDE COATING - TITANIUM	3.44	PER APPL. SPEC/REF: BAC 5861
PHOSPHATE	3.45	PER APPLICABLE SPEC
PLASMA COATING	3.46	AMS 2437
RHODIUM PLATING	3.47	MIL-R-46085
SILVER PLATE	3.48	AMS 2410
SILVER PLATE	3.49	AMS 2411
SILVER PLATE	3.50	QQ-S-365
SILVER PLATE	3.51	AMS 2412
TIN PLATE	3.52	AMS 2408
TIN PLATE	3.53	MIL-T-10727
TIN PLATE	3.54	PS6-5711
TIN/LEAD	3.55	AMS-P-81728
ZINC PLATE	3.56	ASTM B633/QQ-Z-325
ZINC PLATE PER APPL. FULLERTON SPEC.	3.57	PS 112
ZINC PLATE	3.58	ABP1-4043
ZINC CHROMATE PRIMER	3.59	TT-P-1757
OTHERS: MECHANICAL PLATING	3.60	PER APPLICABLE SPEC.
OTHERS: ALUMINUM COATINGS	3.61	PER APPLICABLE SPEC.

All Suppliers

3 PLATING/SURFACE COATING

OTHERS: TIO LUBE 660-1	3.62	PER GEF50TF70 SPEC
OTHER MISC. COATING	3.63	PER CUSTOMER/INDUSTRY SPEC.
ZINC CHROMATE PRIMER	3.64	TT-P-1757
ZINC PLATE	3.65	BAC5637
EXOXP PRIMER	3.66	BMS 10-11/ Mil-PRF-23377
ELECTROPOLISH ASTM-B912 or App. Spec.	3.67	PER APPLICABLE SPEC.
DOD-L-86545	3.68	PER APPLICABLE SPEC.
DRY-FILM LUBE	3.69	AS1701 Type IV
FLUORIMIDE	3.70	PER CUSTOMER SPEC.
CETYL LUBE	3.71	PER APPLICABLE SPEC.
BLACK OXIDE	3.72	MP98-326
DRI FILM LUBE	3.73	AS5272 Type 1
OTHERS: ALUMINUM COATINGS	3.74	EN4473/J20.080/NAS4006/HS294
VACUUM DEPOSITED ALUMINUM	3.75	EN6118 / A/DET0012
CETYL LUBE	3.76	EN617/HS305
TIOLUBE	3.77	TIOLUBE 1175
Parkerizing	3.78	Zinc Phosphate
INO/PLASMA PER SPEC.	3.79	INO/PLASMA PER SPEC.
TIOLUBE	3.80	Tiolube 614-T 7 E/11 F50Tf95
OTHER MISC. COATING	3.81	DECORATIVE CHROME
DECORATIVE CHROME	3.82	DECORATIVE CHROME
DRI FILM LUBE	3.84	EVERLUBE 620 Types several
TITANIUM PLATE	3.85	MIL-STD-1500 / MISC TITANIUM Plate
DRI FILM LUBE	3.86	AS5272 Type I, II
CADMIUM PLATE	3.87	DMP12-001 AMS2416
SILVER PLATE	3.88	EN2786 / CCT LB 545
DRI FILM LUBE	3.89	AMS2530
DRI FILM LUBE	3.90	AS1701
PASSIVATION/CLEANING	3.91	ASTM-A-380/MIL-S-5002
OTHER MISC. COATING	3.92	FED-STD-595 VARIOUS COLORS
ZINC PLATE	3.93	ZINC-NICKEL PER SPEC
ANODIC TREATMENT PER IND. SPECS.	3.94	PER APPLICABLE SPECS.
DRI FILM LUBE	3.95	DFL AS5272/AS1701/620
DRI FILM LUBE	3.96	AS5272 Everlube 620
CETYL LUBE	3.97	CETYL PER 87132
TIN PLATE	3.98	ASTM-545-13
Probation Status	3.99	PROBATION

4 CALIBRATION/GAGES/LAB TESTING

CALIBRATION/GAGES	4.01	ISO 17025/ISO 10012-1//others
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All Suppliers

4 CALIBRATION/GAGES/LAB TESTING

CALIBRATION/GAGES	4.02	CHINA NATIONAL ACCRED. FOR LABS
LAB TESTING	4.03	PER APPLICABLE SPEC.
CALIBRATION/GAGES	4.04	CALIBRATION Non ISO/IEC 17025 Source

5 MACHINE SHOPS

MACHINING INCL:DRILL/TAP/GRIND/THD ROLL/DEBURR/ETC SHOT PEENING	5.01	MACHINE,DRILLING,TAP,DRILL ETC PER APPLICABLE SPEC.
MACHINING INCL:DRILL/TAP/GRIND/THD ROLL/DEBURR/ETC	5.03	FITTINGS AND VALVES
MACHINING INCL:DRILL/TAP/GRIND/THD ROLL/DEBURR/ETC	5.04	CONDITIONAL APPROVAL
MACHINING INCL:DRILL/TAP/GRIND/THD ROLL/DEBURR/ETC	5.05	EDM Machining, Electrical Discharge

6 METAL STAMPINGS/SHEET METALS

STAMPINGS/SHEET METAL PRODUCTS	6.01	STAMPING/SHEET METAL PRODUCTS
STAMPINGS/SHEET METAL PRODUCTS	6.02	CONDITIONAL APPROVAL

7 CASTINGS &/OR FORGING

CASTINGS/FORGED/ PRODUCTS	7.01	CASTING/FORGING/APPLICABLE TESTING
CASTINGS/FORGED/ PRODUCTS	7.02	CONDITIONAL APPROVAL

8 SPRING &/OR WIRE FORMING

SPRINGS &/OR WIRE FORMS PRODUCTS	8.01	SPRINGS/WIRE FORM
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9 RUBBER &/OR PLASTIC MOLDING

RUBBER &/OR PLASTIC PRODUCTS	9.01	RUBBER/PLASTIC
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10 RAW MATERIAL

STEEL/ALUMINUM/TITANIUM/ETC.	10.01	(BARS/COILS/ETC) PER APPL SPEC
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All Suppliers

10 RAW MATERIAL

PACKAGING	10.02	PER APPLICABLE SPEC.
MISC. (INCL. OTHER DISTR.)	10.03	PER APPLICABLE SPEC.
STEEL/ALUMINUM/TITANIUM/ETC.	10.04	CONDITIONAL APPROVAAL

11 OTHER ITEMS/SERVICES

MISC.	11.01	PER APPLICABLE SPEC.
CONDITIONAL APPROVAL	11.02	CONDITIONAL APPROVAL
ISO 9000 CERTIFIED IN ADDITION TO BQS ASL 19 APPR.	11.03	ISO
FASTENER QUALITY ACT (FQA)	11.04	FQA
ISO/IEC GUIDE 25 COMPLIANT	11.05	CALIBRATION
INSPECTION OF PRODUCT	11.06	INSPECTION
Authorized Distributor	11.07	D1-4426 Approved
INSPECTION OF PRODUCT	11.08	CERTIFIED SUPPLIER