



SERVICE OVERVIEW

HEAT TREAT DIVISION

- Diameter Capabilities of 6mm - 30mm
- Real Time Process Control System

Processes Available:

- Atmosphere Harden & Draw
- Gas Carburizing & Tempering
- Carbon Restoration

PLATING DIVISION

- Ford Q-1 Approved Source
- Chrysler Group Approved Source
- General Motors Approved Source

Surface Finishing Processes Available:

- Zinc Electroplate
 -  **ZinKlad** (Ford S-437) Approved Applicator
- Zinc Iron Electroplate
- Zinc Nickel Electroplate
 -  **ZinKlad** 1000 (Silver) Zinc Nickel Electroplate
 -  **ZinKlad** 1000 (Black) Zinc Nickel Electroplate
- Tin-Zinc Electroplate
- Trivalent Chromate Conversions
 - Available in a variety of colors
- Rust Removal - "Pickle & Oil"
- Dry Phosphate
- Zinc Phosphate & Oil
- "Dry To Touch" Phosphate & Oil
- Manganese Phosphate & Oil
- Dip Spin Painting

PLATING DIVISION (CONTINUED)

Organic Topcoats Available:

- General Motors - GM 6174-M
- Ford Motor Company - S-436
- Ultrazinc™ - ESB-M21P4-A7

LOCKING & SEALING DIVISION

- Nylon Thread Patch
- **3M**™ - Fastener Adhesives
- **precote** USA Adhesives
- OEM Approved Thread Sealants
- **LOCTITE**® Dri-Loc® Adhesives
- **LOCTITE**® Vibraseal® Sealant
- Color Identification Services
- Air Stream Clearing of Brake "Bleeder" Screws

ADDITIONAL SERVICES

- A2LA Accredited Laboratories in each division
- Metallurgists On Staff
- Testing for Mechanical Properties
- Testing for Corrosion Performance



REGISTERED QUALITY SYSTEM - ISO-9001:2008

4651 BELLEVUE • DETROIT, MICHIGAN 48207 • (313) 267-2100 • FAX (313) 267-2110

WWW.AJAXMETAL.COM • QUOTE@AJAXMETAL.COM



OUR POPULAR SPECIFICATIONS

GENERAL MOTORS SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• GM-4435M	Zinc Phosphate & Oil	72
• GM-4345M	Zinc Plating (Thickness Specified)	24-192
• GM-6174M	Zinc Phosphate w/ Black Organic	168
• GM-6035M	Phosphate w/ Special Oil Topcoat	96
• GM-6280M	Zinc Alloy Electroplate (Alloy Specified)	
• GMW-3044	Zinc (Thickness Specified) Trivalent Chromate (Optional Topcoat)	
• GMW-3179	Zinc Phosphate & Oil (Code "A" & Code "G")	24-72
• GMW-3200	Tin-Zinc .00035 Trivalent Chromate & Sealer	1,000+
• GMW-4205	Zinc Nickel Coating - Black Type	480
• GMW-4700	Zinc Nickel .00035 Trivalent Chromate	480
• GMW-4700G	Zinc Nickel .00035 Trivalent Chromate & Sealer	480
• GMW-16730	Zinc Nickel .00035 Black Chromate & Sealer/Lube	1,000

FORD SPECIFICATIONS (INCLUDING WORLDWIDE STANDARDS)

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• S-2	Zinc Phosphate & Oil	72
• WSF-M1P89-A	Zn / Iron Electroplate (Thickness Specified)	240-552
• WSE-M1P93-A1 Through A4	Tin-Zinc Alloy Electroplate	240-504
• S-304, WSD-M1P85-A2	Zinc .00035 Clear Chromate	48-72
• S-421, WSD-M1P85-A2	Zinc Plate .00032 Black Chromate & Lubricant	96
• S-430, WSD-M3P35-A1/A2	Zinc Phosphate & Oil	-
• S-434, WSD-M1P85-A1	Zinc Plate .0002	24
• S-435, WSB-M21P29-A1	Zinc .00035 Black Chromate & Black Organic	500
• S-436, WSS-M21P28-A2	Zinc Phosphate w/ Organic Topcoat	120
• WSA-M1P87-A1	Zinc Nickel .00035 Trivalent Chromate	768
• WSS-M21P17-B1 (JS-500)	Zinc .00035 Trivalent Chromate & Topcoat Sealer	384
• S-437 ZinKlad, WSS-M21P17-B3	Zinc .00035 Trivalent Chromate & Sealer/Lube	384
• S-450 ZinKlad, WSS-M21P51-A1/A6	Zinc Nickel .00035 Trivalent Chromate & Sealer/Lube	1,000

CHRYSLER SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• PS-80	Zinc Phosphate & Oil	72
• PS-PLATING	Zinc Plating (Thickness Specified)	24-96
• PS-1207	Chromate Conversion (Color Specified)	24-72
• PS-7187	Zinc Nickel Plating, Chromate Conversion & E-Coat	500
• PS-8955 (NI, FE)	Zinc Alloy Electroplate (Alloy Specified)	-
• PS-8956E	Tin-Zinc Alloy Electroplate	300-600
• PS-10509 (JS-600)	Zinc .0003 Trivalent Chromate & Torque Modifier	500
• PS-12182	Zinc Nickel .00035 Black Chromate & Sealer/Lube	1,000

OTHER SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• DX551200 (Delphi)	Zinc Electroplate (Various Combinations)	-
• DX551300 (Delphi)	Zinc Alloy Electroplate (Various Combinations)	1,000
• DOD-P-16232	Zinc Phosphate & Oil	72
• QQZ-325	Zinc Electroplate	36-192
• ASTM-B633	Zinc Electroplate	12-96



LOCKING & SEALING DIVISION

AUTHORIZED LOCTITE® PRE-APPLIED APPLICATOR

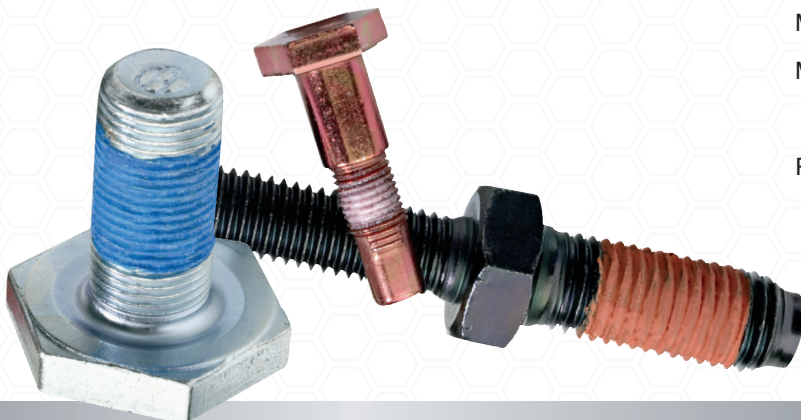
- **LOCTITE®** Dri-Loc® Adhesives:
DL-200, DL-201, DL-202, DL-203, DL-204,
DL-205, DL-2045 & STS
- **LOCTITE®** Sealants: Vibra-Seal® Products
#513™, #516™ & #517™

AUTHORIZED ADHESIVE & SEALANT APPLICATOR

- **3M™** Fastener Adhesives:
#2353 (Blue), #2353 (Yellow)
#2510 (Orange)
- **precoteUSA** Adhesives:
30 (Yellow), 80 (Red), 85 (Turquoise)
- OEM Approved Thread Sealants

NYLON THREAD PATCH APPLICATOR

- Color: Pink



NYLON PATCH SPECIFICATIONS

PF-5144	GM-6189-M	WA-970
PF-6158	GM-6189-P	
IFI-124		
IFI-524		

ADHESIVES

PF-6616	GM-6175-M	WX-200
MS-CC 74	GM-6193-M	ES-20010-S100
MS-CC 76	GM-6194-M	ES-20007-S100
	GM-6124-M	ES-377734-S100
IFI-125	GM-9985500	WSK-M2G354 A1/A9
IFI-525	GMW-14657	ESE-M2G260-A1/A2/A3
		ESE-M2G260-A4 & A5
Rockwell Q-29		ESE-M2G200-A
Rockwell Q-43		ESE-M2G200-B
Rockwell Q-59		ESS-M11P24-A1 & A2

SEALANTS

MS-CD 914	GM-9985490	ESA-M4G208-A1
MS-CD 16	GM-9985473	EST-M4G208-B1 & B2
	GM-6013-M	ES-388525-S101
Rockwell Q-56	GM-6108-M	WSK-M4G328 A1/A6
		WX-201

REGISTERED QUALITY SYSTEM - ISO-9001:2008

4651 BELLEVUE • DETROIT, MICHIGAN 48207 • (313) 267-2100 • FAX (313) 267-2110

WWW.AJAXMETAL.COM • QUOTE@AJAXMETAL.COM





OUR POPULAR SPECIFICATIONS

HONDA SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• HES D 2003	Zinc Plating (As Specified)	48-500
	Zinc Iron Plating (As Specified)	120-800
	Tin-Zinc Plating (As Specified)	500-800
	Zinc Nickel Plating (As Specified)	192-1200

ISUZU SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• ISC-B11-004D	Zinc Plating (As Specified)	96-360
	Zinc Nickel Plating (As Specified)	336-540
	Zinc Iron Plating (As Specified)	600-800

MAZDA SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• MES CG 310	Zinc Plating (As Specified)	48-336
	Zinc Iron Plating (As Specified)	480-552
	Tin-Zinc Plating (As Specified)	500
	Zinc Nickel Plating (As Specified)	1000

NISSAN SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• M 4040	Zinc Plating (As Specified)	96-240
• M 4059	Zinc Iron Plating w/ Chromate	720
• M 4060	Zinc Nickel Plating w/ Chromate	720-1800

TOYOTA SPECIFICATIONS

SPECIFICATION	FINISH	SALT SPRAY HRS. (RED RUST)
• TSH 6512G	Tin-Zinc Plating	1000
• TSH-6500G	Zinc Plating (Electroplated)	48-240
• TSH 6524G	Zinc Plating (Hexavalent Chromium Free)	48-312
• TSH-6530G	Zinc Nickel Plating (Hexavalent Chrome Free)	650-1000



GENERAL PROCESS TIMING*

DETROIT HEAT TREAT DIVISION

2 Automated Continuous Belt Furnaces - Capacity of 2,000,000# Per Week

- Atmosphere harden & temper 48 - 72 Hours
- Gas carburizing & temper 96 Hours

PLATING DIVISION

- 4 Embrittlement Relief Ovens On Site
- 2 Automated Zinc Plating Lines - Capacity of Over 2,000,000# Per Week
Featuring in-line computer controlled zinc plate, bake & chromate
- 2 Automated Zinc Nickel (Alloy) Plating Lines - Capacity of 1,000,000# Per Week
- 1 Automated Zinc Iron (Alloy) Plating Line - Capacity of 500,000# Per Week
- 1 Automated Tin/Zinc (Alloy) Plating Line - Capacity of 500,000# Per Week
- 1 Automated Zinc Phosphate Line - Capacity of Over 1,500,000# Per Week

Surface finishing processes available: Featuring trivalent chromate conversions

- Zinc Plating, Bake & Chromate 48 - 72 Hours
-  **ZinKlad**- S-437 24 - 48 Hours
- Zinc Iron Plating, Bake & Chromate 48 - 72 Hours
- Zinc Nickel Plating, Bake & Chromate 48 - 72 Hours
- Tin-Zinc Plating, Bake & Chromate 48 - 72 Hours
- Dry Phosphate 24 - 48 Hours
- Zinc Phosphate & Oil 24 - 48 Hours
- Manganese Phosphate & Oil 24 - 48 Hours
- Rust Removal - Pickle & Oil 24 - 48 Hours

Organic topcoats & sealers available:

- "Phosphate & Black Topcoat" - GM 6174M 48 - 72 Hours
- "Phosphate & Black Topcoat" - S-436 48 - 72 Hours
- "Ultrazinc"™ - ESB-M21P4-A7 48 - 72 Hours

ADDITIONAL SERVICES

- A2LA accredited laboratories for mechanical & corrosion testing

* The above noted information represents approximate lead times and are presented as a guide only

**Jobs that require expedited turnaround time will be subject to a line break-in premium charge