



## AEROSPACE COMPONENTS

MIL-M-45202C, TYPE I, CLASS A

LIGHT FILM HAE ANODIZE COATING FOR MAGNESIUM ALLOYS

**LIGHT FILM HAE ANODIZE COATING PROCESS FOR PARTS DESIGNED WITH SMOOTH MACHINED AREAS (TYPICALLY BELOW A SURFACE ROUGHNESS OF 63AA); ITS PURPOSE IS TO INCREASE CORROSION RESISTANCE OR PRODUCE SURFACES SUITABLE FOR THE APPLICATION OF A PROTECTIVE ORGANIC FINISH.**

### COATING THICKNESS

**DIMENSIONAL GROWTH IS IN THE RANGE OF: 0.0001" TO .0003 " (0.1 TO 0.3 mil) PER SURFACE.**

### TYPICAL APPLICATIONS:

**HOUSINGS, PUMPS, GEARBOXES, SUPPORT FRAMES, TRANSMISSION HOUSINGS, TURBINE HOUSINGS**

### CHARACTERISTICS:

- \*PROTECTS METAL FROM ATTACK BY SALT AND OTHER CORROSIVE ENVIRONMENTS.
- \*PROTECTS THE SURFACE FROM WEAR AND ABRASION.
- \*HAS GOOD HEAT INSULATING PROPERTIES.
- \*POSSESSES HIGH ELECTRICAL INSULATING PROPERTIES TO PROTECT METAL FROM GALVANIC CORROSION.

### SURFACE QUALITY:

- \*THE TEXTURE OF THE COATING FURNISHES AN EXCELLENT BASE FOR PAINTS AND SEALANTS.
- \*ABSOLUTE PROTECTION OF 3000+ HOURS CAN BE OBTAINED WHEN SEALED WITH ROCKHARD SEALANTS.

APPROVALS		PROCESS SPECIFICATIONS
Allison/Rolls Royce	C188	EPS 11820
Hamilton Standard	58994	HS 291
Boeing Airplane Group	623310	MIL-M-45202C
Nichols Aircraft Division	023214140	MIL-M-45202C
General Electric Aircraft Engines	18644	MIL-M-45202C
AlliedSignal Aerospace	24996	MIL-M-45202C
Sikorsky Aircraft	13065	MIL-M-45202C
Garrett	24996	EMS 52405, Type B
Textron Lycoming	20581	P6432-P3
Airsearch	24996	EMS 52405, Type B



## MILITARY & AEROSPACE COMPONENTS

MIL-M-45202C, TYPE II, CLASS A  
AMS 2476

HEAVY FILM HAE ANODIZE COATING FOR MAGNESIUM ALLOYS

**HEAVY FILM HAE ANODIZE COATING PROCESS FOR PARTS EXPOSED TO EXTREME CORROSIVE ENVIRONMENTS; ITS PURPOSE IS TO INCREASE CORROSION RESISTANCE OR PRODUCE SURFACES SUITABLE FOR THE APPLICATION OF A PROTECTIVE ORGANIC FINISH.**

### COATING THICKNESS

**DIMENSIONAL GROWTH IS IN THE RANGE OF: 0.001" TO 0.002 " (0.1 TO 0.2 mil) PER SURFACE.**

### TYPICAL APPLICATIONS:

**PUMPS, GEARBOXES, SUPPORT FRAMES, COMPRESSOR HOUSINGS, INLET HOUSINGS, TURBINE HOUSINGS.**

### CHARACTERISTICS:

- \*PROTECTS METAL FROM ATTACK BY SALT AND OTHER CORROSIVE ENVIRONMENTS.
- \*PROTECTS THE SURFACE FROM WEAR AND ABRASION.
- \*HAS GOOD HEAT INSULATING PROPERTIES.
- \*POSSESSES HIGH ELECTRICAL INSULATING PROPERTIES TO PROTECT METAL FROM GALVANIC CORROSION.

### SURFACE QUALITY:

- \*THE TEXTURE OF THE COATING FURNISHES AN EXCELLENT BASE FOR PAINTS AND SEALANTS.
- \*ABSOLUTE PROTECTION OF 8000+ HOURS CAN BE OBTAINED WHEN SEALED WITH ROCKHARD SEALANTS.

APPROVALS		PROCESS SPECIFICATIONS
Allison/Rolls Royce	C188	EPS 11820
Hamilton Standard	58994	HS 291
Boeing Airplane Group	623310	MIL-M-45202C
Nichols Aircraft Division	023214140	MIL-M-45202C
General Electric Aircraft Engines	18644	MIL-M-45202C
AlliedSignal Aerospace	24996	MIL-M-45202C
Sikorsky Aircraft	13065	MIL-M-45202C
Garrett	24996	EMS 52405, Type A
Textron Lycoming	20581	P6432-P1
Airsearch	24996	EMS 52405, Type A