Aerospace standard SAE AS1701

Class V:

-54°C/+454°C

usage: corrosion resistance steels, heat-corrosion resistant steels

MoS2 + inorganic

airdrying

thermal stability: up to 454°C corrosion resistance: not required

Molykote candidate: D 321R

al technical requirements:

General tec	chnical requirements:				
3,1	no silver or its compounds, lead, halogenated solvents				
3.3.1	surface treatment of parts: see table 2				
3,4	coating thickness: 5.1/12.7 µm		Nonferrous material	ASTM D 1400	
			Ferrous material	ASTM D 1186	
3,5	film adhesion			ASTM D 3359 Method B	
3.5.1	fluid resistance			ASTM D 2510 procedure C	
0.0		fluids: ASTM D 1141 vol.31 (substitute ocean water) (proc. A ?) MIL-A-8243 (anti-icing fluid)			
			VV-D-1078 (damping fluid, silicone based)		
			hetic hydraulic fluid fire resistant)		
MIL-PRF-23699 (synthetic tu				thetic turbine oil)	
		MIL-PRF-7808 (synthetic turbine oil)			
		MIL-DTL-5624 (aviation turbine fuel, kerosene JP4/JP5) Methanol (O-M-232) + reag. water (D 1193) 44/56 p/vol (
no softening, blistering, discoloration, undercutting or loss of					
3,6	U. U. DT (Classelles (2.5)				
0,0	thorna stability	3 test pan	test panels - no flaking, cracking, or peeling		
3,7	vacuum stability	not required			
3,8	shock sensitivity to liqu	uid oxygen not required			
3,9	film appearance	n appearance visual examination with min. 10x magnification lamp (min.			
0,0		before an	pefore and after thermal stability test (3.6) - no cracks, scratches, t		
3.10	corrosion resistance	not required			
3,11	coefficient of friction	ASTM D 2714 LFW1 oscillating			
0,11		static coe	fficient of friction: 0.03/	cient of friction: 0.03/0.13	
3,12	wear requirements	not required			
3.12.1.1		ASTM D 2625			
3.12.1.2	load carrying capacity			ASTM D 2625	
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Quality as	surance:				
4.1.1	qualification tests:		product manufacture	r is responsible for passing all	
			qualification tests		
1			0.50		

1) coating thickness

3) film appearance

2) film adhesion

each lot shall pass the tests as applicable to the class:

(3.5) also (3.5.1)?

(3.4)

(3.9)

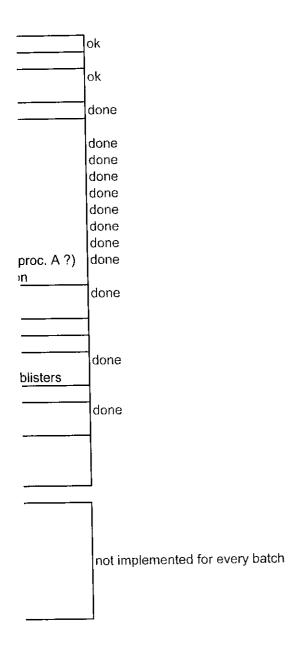
questions:

4.1.2

preparation of panels (pre-treatment)? coefficient of friction 3.11 - load?

quality tests: film adhesion, only 3.5 and not 3.5.1?

quality conformance tests:



phosphating with DOD-P-16232 Type M or Z class3 = Hebrobond M 98 apply by spraying thickness of the AFC between 5.1/12.7 μm airdrying

questions:

preparation of panels (pre-treatment)? coefficient of friction 3.11 - load? quality tests: film adhesion, only 3.5 and not 3.5.1?