

CUTTING FLUID QUALIFICATION SHEET

MATERIALS-PROCESSES LABORATORY Report N° QFU159

Supplier: Reference of product:

ENVSAFE LTD Reference of product :

♦ Tests performed for qualification :

Tests performed by: Exova, Bureau Veritas

References of test reports: T118045-1, T116516-5 and C-240417-03463 Specification Safran Landing Systems referenced for tests: **PCS-4001 Issue 2**

Tests performed :	YES	NO
Corrosion test on non protected steel coupons	Х	
Hydrogen embrittlement test as per ASTM F 519	Х	
Corrosion test on cadmium plated steel coupons	Х	
Corrosion test on aluminum alloy coupons	Х	
Stress corrosion test		Х
Tests on grounded hard chrome plating		Х
Chemical analysis of amines : absence of secondary amines		Х
Stress corrosion at high temperature on titanium alloy	Х	

™ Tests results :

Compliance of results with specifications	YES	NO
Corrosion test on non protected steel coupons	X	
Hydrogen embrittlement test as per ASTM F 519	X	
Corrosion test on cadmium plated steel coupons	X	
Corrosion test on aluminum alloy coupons	X	
Stress corrosion test		Х
Tests on grounded hard chrome plating :		Х
Chemical analysis of amines : absence of secondary amines		Х
Stress corrosion at high temperature on titanium alloy	X	

Domains of use covered by qualification :

Uses authorized for referenced product :	YES	NO
Machining of steel with UTS < 1380 MPa, non assembled parts	Х	
Machining of steel with UTS > 1380 MPa, non assembled parts	Х	
Machining of aluminum alloys	Х	
Machining of steel with UTS > 1380 MPa, assembled parts		Х
Grinding of hard chrome coating		Х
Grinding of WC-10Co-4Cr coating		Х
Machining of titanium alloys	Х	

Done at Bidos, on 16th, November, 2017 Written by :

Aurélie Dupuy