



December 15th, 2016
Vitoria, Spain

4600 XTREME

TRANSFER EFFICIENCY TESTS FOR SAGOLA 4600 XTREME FAMILY

Technical Report N° 201612/1
According to European Standard EN 13966-1

TECHNOLOGY DESCRIPTION

4600 XTREME is a high transfer spray gun manufactured by SAGOLA marketed to automotive refinishers. 4600 XTREME offers four different air caps totally interchangeable so each end user can select most suitable version according to product application and working conditions:

The purpose of this report is to demonstrate that non HVLP air caps (DVR AQUA, DVR CLEAR and DVR TITANIA) achieve equivalent or better Transfer Efficiency of at least 65%.

TESTS

4600 XTREME with the four different air caps has been tested together with one conventional spray gun and two HVLP spray guns from different manufacturers using same parameters and conditions.

For the purpose of this test acrylic copolymer/2- component clear coating STANDARD VOC CLEAR has been used.


For complete test results in accordance to EN 13966-1 Standard, Determination of the transfer efficiency of atomizing and spraying equipment for liquid coating materials – Part 1: Flat Panels, please consult the complete technical report from our R&D laboratory N° 201612/1 **Transfer efficiency tests for 4600 Xtreme spray gun family.**

The transfer efficiency test procedure used during these tests and values reported are only valid for the application of liquid coating materials onto flat panels. The transfer efficiency values only express the potential performance of atomizing and spraying equipment for comparison of different types or models. The value may or may not be attained in use, where the working conditions and operator practice are likely to differ from those of the standard test method. As with any technology selection, the end user must select appropriate paint spray equipment for a process that can meet the associated environment restrictions, productivity and coating quality requirements.





TEST RESULTS ABBREVIATED SUMMARY

Manufacturer	SAGOLA S.A.				Manufacturer No.1	Manufacturer No.2	Manufacturer No.3
Atomiser	4600 Xtreme				CONVENCIONAL	REFERENCE No.1	REFERENCE No.2
Air cap					CONVENCIONAL	HVLP	HVLP
	DVR HVL	DVR AQUA	DVR CLEAR	DVR TITANIA			
Transfer efficiency %	70	70	68	71	56	67	65

CONCLUSION

The test results show that 4600 Xtreme non HVLP air caps, DVR AQUA, DVR CLEAR and DVR TITANIA, provide an environmental benefit comparable to HVLP spray equipment by providing the end user with the same or improved transfer efficiency as HVLP system.

