

Fact Sheet

AerisGuard™ TECHNICAL DATA SHEET

DESCRIPTION :

PROPERTIES:

Colour:	Translucent, light blue finish (colour can be adjusted to meet manufacturer's needs)
Gloss Level:	Full
Chemical Resistance:	Excellent (with the exception of strong alkalis or oxidising chemicals), see chemical resistance information
Solvent Resistance:	Dependent upon selection of solvent
Temperature Range:	Up to 120 °C
Fin pattern:	Standard and also suitable for enhanced fin designs
Fin Type:	Aluminium, Copper

TECHNICAL DATA:

Application method:	Total Coil Immersion
Immersion Cycle:	Dependent upon coil size
Curing Cycle:	Dependent upon coil size
Film thickness:	7-9 microns d.f.t. (dry film thickness) per coat
Heat Transfer:	Negligible impairment at the given thickness
VOC level:	180 grams/Litre
Neutral Salt Spray:	3000 hrs ASTM B117 (AS 2331.32 – 1980)

Source: Hawker de Havilland (Boeing)

AerisGuard™ OEM Coverage Rate

The quantity used is dependant ultimately on the viscosity of the coil coating and the drainage cycle.

One litre of AerisGuard™ (as delivered) per
50 - 60 sqm of total heat exchanger surface area

Surface Coverage – In average situations of use:

Example: Calculation of volume of AerisGuard™ OEM required

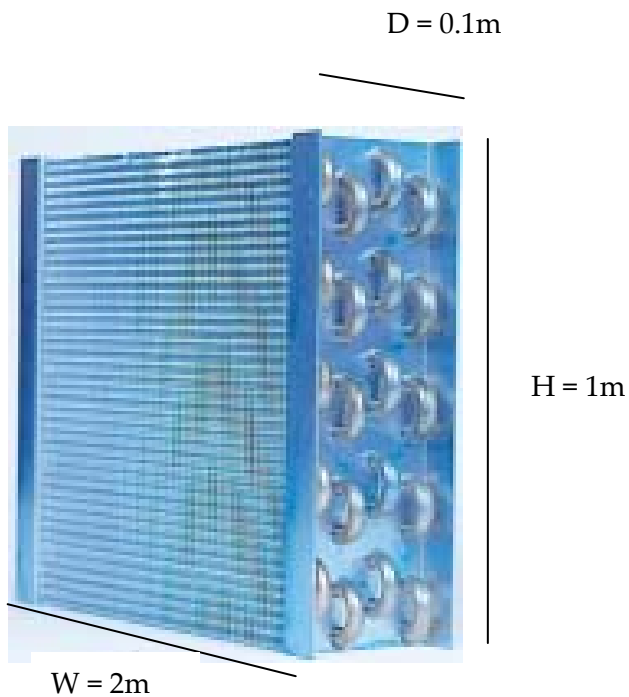
Coil dimensions:

Height (H): 1 metre ≈ 39.4 inches

Width (W): 2 metre ≈ 78.8 inches

Depth (D): 0.1 metre ≈ 3.94 inches

Fins per inch: 8 fpi



Number of fins on Coil = Width x fins per inch
= 78.8 inches x 8 fpi
≈ 630 fins

Surface Area (S.A.) of each fin = Height x Depth x 2 sides of fin
= 1m x 0.1m x 2
= 0.2 m²

Total Surface Area of Coil = S.A. of each fin x no. of fins
= 0.2 x 630
= 126m²

Volume of AerisGuardTM Required = S.A. of Coil / Coverage Rate
= 126 / 55 (average)
≈ **2.3 Litres of AerisGuardTM OEM**