

Datum Delta

Datasheet



Overview

The increase in demand for thinner stainless steel foils has led to the development of Datum Delta. Datum Delta is a proprietary, cold rolled precision strip manufactured from 304 grade stainless steel (to JIS G4313) and is available in very thin gauges. As with our other foils, Datum Delta undergoes tension levelling and annealing processes to produce an exceptionally flat, low stress product. The low inherent stress eliminates shape deformation during processing by chemical etching or laser.

Datum Delta is ideally suited to laser cut PCB solder mask stencils and etching applications. Its low residual stress ensures minimal deformation following processing. The use of Datum Delta ensures exceptionally flat stencils with excellent paste release properties and is ideal where thinner material is required for small apertures and small paste deposits.

Chemical composition (%)

C	Si	Mn	P	S	Ni	Cr	Fe
≤0.08	≤1.00	≤2.00	≤0.045	≤0.033	8.00 - 10.50	18.00 - 20.00	BAL

Mechanical properties

Hardness (HV)	Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Surface Roughness (Ra μm)
>370	>1130	880	Reported	0.15

Gauges available and tolerances (mm)

0.020	0.030	0.040	0.050	0.060	0.070
±0.0010	±0.0012	±0.0016	±0.0020	±0.0024	±0.0028

Sizes available

- Width up to 610mm ±1mm
- Any sheet lengths available ±1mm, or available in coils on a variety of core sizes

Inspection

All incoming material is inspected and confirmed to conform to the above criteria. All orders are visually inspected prior to despatch.