

## Specification for Datum Laser PhD

26<sup>th</sup> June 2007

### Specification no. G3N640.00 Version 1

#### QUALITY

2-1 The chemical compositions shall be shown in Table 1.

Table 1.

Alloy Code	Chemical compositions(%)							
	C	Si	Mn	P	S	Ni	Cr	Fe
SUS304	0.08 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	8.00 ~ 10.50	18.00 ~ 20.00	REM .

2-2 The mechanical properties shall be shown in Table 2.

Table 2.

Material Code	Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Hardness (HV)
SUS304-H-TA	1130 Min.	Rec.	370 Min.

#### 2-3 Appearance

The strip shall be having no harmful defects such as crack or stain,  
 Having no roll stop marks or wiper marks for its applications.  
**The depth of surface defect shall not exceed 2µm.**

#### 2-4 Roughness

The Ra of material surface shall not exceed 0.25µm. And the Ry of material surface shall not exceed 2µm.

### 3. DIMENSIONS

3-1 Tolerances of thickness shall be shown in Table 3.

Table 3.

Nominal thickness	Tolerances
0.10mm to 0.25mm	±3 %

3-2 Tolerances of width shall be shown in Table 4.

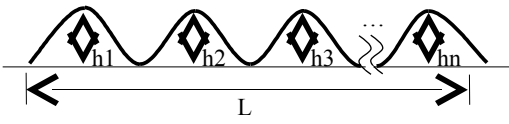
Table 4.

Width of Strip	Tolerances
610 mm	+1 / -0 mm

3-3 The burr height shall not exceed 10% of the strip nominal thickness.

3-4 Tolerances of shape of Strip shall be shown in Table 5.

Table 5.

	Tolerances	
Camber	2 mm Max. (Sample length : 1000mm)	
Coil Set (Hanging)	12 mm Max. (Sample length : 500mm)	
Edgewave	1.5 mm Max. (Aim 1mm Max.) (Sample length : 1000mm)	
Centerwave	t : 0.05 to 0.15mm	0.5 mm Max.
	t : 0.151 to 0.25mm	1.0 mm Max. (Aim 0.5mm Max.)
	(Sample length : 1000mm)	
Steepness	<p>1.5% Max. (Sample length : 1000mm)</p> $\text{Steepness}(\%) = \frac{h_1+h_2+h_3+\dots+h_n}{L}$ 	

※Aim of edge wave depth shall not extend to 100mm from both edge.