

## Applicable Standards

The following list contains specification references for products we can offer. Applicable Standards describe specification requirements our suppliers can meet.

	Applicable Standards
Quality designations	ASTM A463 JIS G3314
Chemical composition	ASTM A463 JIS G3314
Mechanical properties	ASTM A463 JIS G3314
Coating weights	ASTM A463 JIS G3314
Thickness tolerances	ASTM A463 JIS G3314
Camber tolerances	ASTM A463 JIS G3314

## ASTM A463-88

- **Quality Designations**
  - CQ(commercial quality): Material intended for parts where bending, moderate forming, or moderate drawing may be involved. (Equivalent of JIS G3314 SA1C.)
  - DQ(drawing quality): Material intended for fabricating identified parts where drawing or severe forming may be involved. Care should be taken to ensure that the coating designation is compatible with the end use. (Equivalent of JIS G3314 SA1D.)
  - DQSK(drawing quality special killed): Material intended for fabricating identified parts where particularly severe drawing or forming may be involved or essential freedom from aging is required. Care should be taken to ensure that the coating designation is compatible with the end use. (Equivalent of JIS G3314 SA1E)
  - SQ(structural quality): Material produced when mechanical properties are specified or required. Such properties or values include those indicated by tension, hardness, or other commonly accepted mechanical

tests. Structural quality is not available from Korean producers.

- **Chemical Composition**

Standard	Quality Designation	Chemical Composition(%)				
		C	Si	Mn	P	S
A463-88	Commercial Quality	0.15&Under	-	0.60&Under	0.035&Under	0.040&Under
	Drawing Quality	0.10&Under	-	0.50&Under	0.025&Under	0.035&Under
	Deep-Drawing Quality	0.10&Under	-	0.50&Under	0.025&Under	0.035&Under

- **Coating Weights (g/m<sup>2</sup>)**

Coating Weight Designation	Triple Spot Test Total Both SidesA		
		ASTM 463	JIS G3314
040	40	-	40
060	60	-	60
075	75	T1 25	-
080	80	-	80
100	100	-	100
120	120	T1 40	-

A Triple-spot-test total both sides: average of coating weights on both sides tested from a full width sample of a coated coil: 2 inches from each end and dead center

- **Thickness Tolerances**

Thickness	Width		
	W<=820	820<W<=1016	1016<W<=1524
t<=0.58	±0.07	±0.07	±0.07
0.58 < t<=1.09	±0.10	±0.10	±0.10
1.09 < t<=1.55	±0.12	±0.12	±0.12
1.55 < t<=1.90	±0.15	±0.15	±0.15
1.90 < t<=2.56	±0.17	±0.20	±0.20

- **Camber Tolerances**

- Camber Tolerances of Aluminum-Coated Steel Sheet

Cut Length. ft(m)	Camber	Tolerance, in (mm)
To 4(1.2), incl	1/8	(3.2)
Over 4 to 6(1.2 to 1.8), incl	3/16	(4.8)
Over 6 to 8 (1.8 to 2.4), incl	1/4	(6.4)
Over 8 to 10 (2.4 to 3.0), incl	5/16	(7.9)
Over 10 to 12 (3.0 to 3.7), incl	3/8	(9.5)
Over 10 to 14 (3.7 to 4.3), incl	1/2	(12.7)
Over 14 to 16 (4.3 to 4.9), incl	5/8	(16)
Over 16 to 18 (4.9 to 5.5), incl	3/4	(19)
Over 18 to 20 (5.5 to 6.1), incl	7/8	(22)
Over 20 to 30 (6.1 to 9.1), incl	1 1/4	(32)
Over 30 to 40 (9.1 to 12.2), incl	1 1/2	(38)

## JIS G3314

- **Mechanical Properties (Elongation & Bend Test)**

Type	Code	Elongation (%)			Bend Test	
		0.4<=t<0.6	0.6<=t<1.0	1.0<t	Bend Angle	Inner Spacing of Bend
Commercial Quality	SA1C	-	-	-	180°	4t
Drawing Quality	SA1D	>=30	>=32	>=34	180°	1t
Deep-Drawing Quality	SA1E	>=34	>=36	>=38	180°	1t

- **Thickness Tolerances**

Thickness	Width	W<1000	1000<=W<1250
0.40 <= t<0.60		±0.07	±0.07
0.60 <= t<1.00		±0.10	±0.11
1.00 <= t<1.60		±0.13	±0.14
1.60 <= t<2.30		±0.17	±0.18
2.30 <= t<		±0.21	±0.22

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