



**JINDAL  
ALUMINIUM  
LIMITED**

# CIRCLE BLANKS

We offer circle blanks to our customers in a wide spectrum of customised diameters and thicknesses. Manufactured by using virgin aluminium metal, high speed circle punching lines and automatic stackers, our circle blanks have uniform chemical and mechanical properties and have excellent surface finishes. Our circle blanks are well suited for the manufacture of pressure cookers, non-stick pans and coated cookware.



## DIMENSIONS

PARAMETER	RANGE	TOLERANCE [mm]
Thickness [mm]	0.50 - 5.00 mm	± 0.1 mm
Diameter [mm]	101 - 915 mm	± 0.5 mm
Earing	<5% for 'O' temper <9% for H12, H14, H16, H18	-



## DIE SIZES [in mm]

101, 109, 114, 117, 120, 123, 126, 128, 133, 135, 142, 150, 154, 160, 165, 171, 178, 180, 182, 185, 189, 190, 195, 200, 203, 205, 208, 210, 216, 220, 222, 225, 227, 229, 230, 232, 234, 235, 237, 240, 242, 245, 248, 250, 252, 254, 256, 259, 260, 265, 266, 268, 270, 272, 275, 280, 285, 288, 290, 292, 293, 295, 300, 305, 310, 315, 318, 320, 325, 330, 333, 335, 338, 340, 343, 345, 347, 348, 350, 355, 357, 358, 360, 363, 365, 368, 375, 380, 382, 385, 390, 395, 398, 400, 406, 412, 415, 420, 425, 430, 432, 440, 445, 450, 455, 458, 460, 463, 465, 470, 474, 480, 485, 495, 500, 510, 512, 525, 534, 545, 550, 560, 562, 570, 587, 600, 610, 633, 660, 665, 670, 683, 705, 711, 725, 730, 735, 750, 762, 780, 813, 864, 915.



## MECHANICAL PROPERTIES

ALLOY	TEMPER	%E [MIN] (AT 50MM GAUGE LENGTH)	UTS [MPA]		BEND TEST: RADIUS OF BEND [T-MATERIAL THICKNESS]
			MIN	MAX	
1050	0	29	55	95	Close 1/2T 1T
	H14	6	95	125	
	H18	4	125	-	
1200	0	29	70	110	Close 1/2T 1/2T 1T
	H14	5	105	140	
	H16	4	125	150	
	H18	3	140	-	
3003	0	25	90	130	Close 1/2T 1T 3T
	H14	5	130	180	
	H16	4	150	195	
	H18	3	170	-	
3103	0	25	90	130	Close 1/2T 1T 3T
	H14	5	130	180	
	H16	4	150	195	
	H18	3	170	-	
8011	0	25	85	120	Close 1/2T 1T 3T
	H14	5	125	160	
	H16	4	150	180	
	H18	3	175	-	
3105	0	20	95	145	Close 1/2T 1T 2T 4T
	H12	5	130	180	
	H14	3	150	200	
	H16	2	170	220	
	H18	1	190	-	

## CHEMICAL COMPOSITION

Alloy [%]	AA 1050	AA 1200	AA 3003	AA 3103	AA 8011	AA 3105
Fe	0.40	-	0.70	0.70	0.6-1.0	0.70
Si	0.25	1.0 [Fe + Si]	0.60	0.50	0.5-0.9	0.60
Mg	0.05	-	-	0.30	0.05	0.2-0.8
Mn	0.05	0.05	1.00 - 1.50	0.90 - 1.50	0.20	0.3-0.8
Cu	0.05	0.05	0.05 - 0.20	0.10	0.10	0.30
Zn	0.05	0.10	0.10	0.20	0.20	0.40
Ti	0.03	0.05	0.10	0.10	0.08	0.10
Cr	-	-	-	0.10	0.05	0.20
Each [Others]	0.03	0.05	0.05	0.05	0.05	0.05
Total [Others]	-	0.125	0.15	0.15	0.15	0.15
Al	99.50 min	99.00 min	Remainder	Remainder	98.00 min	Remainder

### SURFACE QUALITY

Free from scratches, pit marks, and rolling bands

### APPLICABLE STANDARDS

ASTM – B – 209 M, IS 737 / EN 573,

The Aluminium Association and Jindal Aluminium manufacturing limits (as applicable).

### PACKING

The circles are packed in HDPE bags with interleaved paper.

### JINDAL ALUMINIUM LTD

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