

INSPECTION CERTIFICATE

(DIN 50049/3.1B/EN 10204/3.1B)

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NO.: 0171020

PURCHASER: MESSER AGS GMBH

INDUSTRIEBASE DEUTSCHLAND ORDER NO. MAN.: 33727

HANAU

SPEC.: ASME SB-209

ORDER NO. PURCH.: 14500021132 VOM 05.11.2003

ALLOY/TEMPER: 5083-O

ITEM: 03 LOT: 923771

PRODUCT: PLATE

QUANTITY: 2

DIMENSIONS: 15,000 x 2500,00 x 12500,00 mm

RESULTS:

Mechanical properties:

Pl. No.	Spec. No.	Y.S. N/mm ²	U.T.S. N/mm ²	El. %	Reduction of area %	Impact strength (CVN) J/cm ²
		125	276	16,0		
		199	351			
	1	183	321	24,5		
	2	187	319	22,3		

Chemical composition: in % , remainder Al

Cast No.: 5-03-0513

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	B
0,178	0,207	0,031	0,695	4,666	0,108	0,068	0,0259	0,0015
Zr	Pb	Ni	Sn	Be	Na	Li	V	
0,0056	0,0016	0,0055	0,0020	0,0016	0,0000	0,0000	0,0051	
Al	Ti	Ti+Zr	Cu/Mg					
		0,032						

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NO.: 0171020

PURCHASER: MESSER AGS GMBH

INDUSTRIEGASE. DEUTSCHLAND ORDER NO. MAN. 33727

MANAU

SPEC.:

ASME SB-209

ORDER NO. PURCH. 14500021132 VOM 05.11.2003

ALLOY/TEMPER: 5083-O

ITEM: 03 LOT: 923772

PRODUCT: PLATE

QUANTITY: 2

DIMENSIONS: 15,000 x 2500,00 x 12500,00 mm

RESULTS:

Mechanical properties:

Pl. No.	Spec. No.	Y.S. 2 N/mm	U.T.S. 2 N/mm	EL. %	Reduction of area %	Impact strength 2 (JVM) J/cm
Min. L:		125	276	16,0		
Max. L:		199	351			
1		168	315	21,2		
2		178	317	23,5		

Chemical composition: in % , remainder Al

Cast No.: 4-04-0516

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	B
0,203	0,234	0,052	0,640	4,757	0,098	0,100	0,0303	0,0018
Zr	Pb	Ni	Sn	Be	Na	Li	V	
0,0062	0,0025	0,0053	0,0027	0,0016	0,0000	0,0000	0,0056	
Al	Ti	Ti+Zr	Cu/Mg					
		0,036						

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PURCHASER: MESSER AGS GMBH

INDUSTRIEGASSE DEUTSCHLAND ORDER NO. MAN.: 33727

HANAU

SPEC.: ASME SB-209

ORDER NO. PURCH. 14500021132 VOM 05.11.2003

ALLOY/TEMPER: 5083-O

ITEM: 03 LOT: 923770

PRODUCT: PLATE

QUANTITY: 2

DIMENSIONS: 15,000 x 2500,00 x 12500,00 mm

RESULTS:

Mechanical properties:

P.L. No.	Spec. No.	Y.S. N/mm ²	U.T.S. N/mm ²	El. %	Reduction of area %	Impact strength (DVM) J/cm ²
Min. L1		125	276	16,0		
Max. L1		199	351			
1		172	313	26,7		
2		171	309	24,1		

Chemical composition: in % , remainder Al

Cast No.: 4-04-0516

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	B
0,203	0,234	0,052	0,640	4,757	0,098	0,100	0,0303	0,0018
Zr	Pb	Ni	Sn	Be	Na	Li	V	
0,0062	0,0025	0,0053	0,0027	0,0016	0,0000	0,0000	0,0056	
Al	Ti	Ti+Zr	Cu/Mg					
		0,036						

INSPECTION CERTIFICATE (DIN 50049/3.1B/EN 10204/3.1B)

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PURCHASER: MESSER AGS GMBH

INDUSTRIEGASE DEUTSCHLAND ORDER NO. MAN.: 33727

HANAU

SPEC.: ASME SB-209

ORDER NO. PURCH.: 14500021132 VOM 05.11.2003

Remarks:

ASME SB-209, CODE SECT. II, PART B, EDITION 2001

ELONGATION IN 2 IN.

MAX. 0,2 ML H2/100 G AL

VISUAL INSPECTION AND DIMENSIONAL CHECK PASSED

THE MATERIAL HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED
AND MEETS THE REQUIREMENTS OF THE MATERIAL SPECIFICATION.

Enclosures:

Koblenz, the 26.01.04 RL

Quality assurance

- Ing. J. Wiemann -