

# NUCOR

P.O. Box 279  
Winton, NC 27986  
(252) 356-3700

## Mill Test Report

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# NUCOR

Let's our Nature

### PLATE MILL

Issuing Date : 09/14/2005

Vehicle No : **TTPX 80925**

ASTM A36-05/ASTM A709 Grade 36-05/ASTM A283 Grade C-03

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Marking :

Heat No	C	Mn	P	S	SI	Cu	NI	Cr	Mo	Alz	V	Nb	TI	N	Ca	B	Sn	CEQ	PCM
5105976	0.18	0.85	0.013	0.009	0.09	0.27	0.11	0.09	0.01	0.037	0.009	0.007	0.001	0.0065	0.0043	0.0004	0.017	0.37	0.25

Plate Serial No	Pieces	Tensile Test				Charpy Impacts				Temp	Min Ave.								
		Dir.	Yield	Tensile	Elongation % in 2"	Dir.	1	2	3										
5105976-01	12	T	42,600	69,700	20.8	1	shear	2	shear	3	shear	Ave.	shear	Size					
5105976-02	12	T	49,100	72,700	25.9	1	shear	2	shear	3	shear	Ave.	shear	Size					
5105976-03	11	T	42,600	69,700	20.8	1	shear	2	shear	3	shear	Ave.	shear	Size					

Metric Results	Plate Serial No	Pieces	Tensile Test				Charpy Impacts				Temp	Min Ave.							
			Dir.	Yield	Tensile	Elongation % in 2"	Dir.	1	2	3									
	5105976-01	12	T	294	481	20.8	1	shear	2	shear	3	shear	Ave.	Size					
	5105976-02	12	T	339	501	25.9	1	shear	2	shear	3	shear	Ave.	Size					
	5105976-03	11	T	294	481	20.8	1	shear	2	shear	3	shear	Ave.	Size					

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material.

Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast as-rolled discrete plate.

Yield by 0.5EUL method unless otherwise specified. Cen = C+(Mn/6)+(Cr+Mo+V)/5+((Cu+Ni)/15)

Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B

Melted and manufactured in the USA. ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0985-09). PED 97/23/IEC Compliant.

DIN 50049 3.1, BIEN 10204 3.1, B(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-MM/PGA-182

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications.

T. A. Depretris, Metallurgist

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