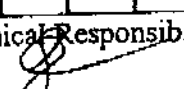


OK

/ 5060.
SOL - 3 X 1/4 696881

MILL'S CERTIFICATE

Gerdau Açominas S.A.
Avenida João XXIII, 6777
Tel 21 414-6000 Fax 21 414-6243
CEP 23560-900 - RIO DE JANEIRO - RJ

THIS PRODUCT IS IN ACCORDANCE WITH THE REQUIREMENTS OF APPLIED TECHNICAL STANDARD AND WAS MONITORED IN EVERY MANUFACTURING STAGE															
Customer										Invoice 0001679E04		Code 0005058702		Certificate No 0000696981	
Material SOLERAS				Quality ASTM A-36		Size 3 X 1/4		Length 20 PES		Date 22/11/2004		Page 14 of 15			
Heat	C %	Mn %	Si %	S %	P %	LE N/mm ²	LR N/mm ²	Alng %							
41257041	0,12	0,75	0,18	0,029	0,014	352	463	30,00							
41257042	0,11	0,74	0,16	0,028	0,018	318	431	30,00							
Code of Mechanical Properties						Observation				Technical Responsible					
Alng Alongamento LE Limite de Escoamento LR Limite de Resistência										 Ricardo Marra Antunes CREA 901018962					

Humberto del Castillo

0155 53 10 48 94