

Certificate of Test

ITEM INFORMATION

Part Number: 0362013807 **Description:** 11/2 3000 FS SKT/W 45 ELL
Heat Code: 50945 **Heat Number:** 50945
Reference No.:
Part Specification: ASTM A105/A105M-14/ASME SA105-14 NACE MR 0103/MR 0175/ISO15156-2

CHEMICAL ANALYSIS %

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb/Nb	Al	Co	CE
0.2100	1.0400	0.0020	0.0250	0.2490	0.1800	0.0900	0.1000	0.0200	0.0230	0.0020	0.0340	0.0070	0.430

CE (LONG FORMULA) = 0.430

PHYSICAL PROPERTIES

Yield KSI	Yield PSI	Yield MPA	Tensile KSI	Tensile PSI	Tensile MPA	Elongation	REDUCTION OF AREA %	HARDNESS 1 BHN/HRC	HARDNESS 2 BHN/HRC
53	52841	364	80	79838	550	34.45	63.43	141	141

IMPACT TESTING

TYPE	TEMP	SMPL# 1	# 2	# 3	AVG	%SHEAR	LAT EXP
CHARPY							

SUPPLEMENTAL INFORMATION

THE ORIGINAL MANUFACTURER'S CERTIFICATION MEETS THE REQUIREMENTS OF EN 10204 TYPE 3.1. WE CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE MILL CERTIFICATE, ISSUED BY THE MANUFACTURER OF THE STEEL EMPLOYED OR THE LABORATORY WHICH HAS DETERMINED IT, AS RETAINED IN THE RECORDS OF THE COMPANY. WE MAKE NO REPRESENTATION BEYOND THOSE OF THE MANUFACTURER OR ITS AGENT.