



Head Office : 395/5 Silom Road, BangRak, Bangkok 10500, Thailand. Tel: (662)-2377230-40 Fax : (662)-2366627, 2377241
Production Plant : 33/3 GP. 7, Soi Pon-Chareon, K.M. 16.5 Bangna-Trad Road, Bangplee, Samutprakan 10540, Thailand
website : www.ttu.co.th email address : sale001.ttu@ttugroup.com, chris.ws@ttugroup.com

MANUFACTURER'S CERTIFICATE

(Mill Test Certificate) DIN 50049-3.1-B / EN 10204-3.1

Table with 4 columns: Field (Purchaser, Product, Specification), Value (PLESA ANAHUAC Y CIAS, SA DE C.V., CARBON STEEL FITTINGS, ASTM A-234 WPB - 2011A, ASME SA234 WPB), Certificate No (140033), Order No (PO. 17201), Date (JANUARY 6, 2014), L/C No (M930449)

Table with 4 columns: Raw Material Standard (PIPE: ASTM A106 B / A53B / API5LB, PLATE: ASTM A516 Gr 50 / 60), Inspection Standard (ANSI B16.9, ANSI B16.28), Visual Inspection (PASS), Dimensional Inspection (PASS)

Table with 5 columns: Product & Size (inch), Heat ID., Quantity, Heat NO., Raw Material Maker. Lists 11 items including 90 ELBOW LR SCH40, 45 ELBOW LR STD, 90 ELBOW SR SCH40, and TEE SCH40.

Table with 17 columns: Standard, Chemical Composition % (C, Si, Mn, P, S, Cu, Ni, Cr, Mo, V, Nb, Al), Mechanical Test (YS, TS, E), Average Hardness, CE Long Formula. Includes min/max values and test results for 11 items.

COUNTRY OF EXPORT : THAILAND
COUNTRY OF ORIGIN : THAILAND

We hereby certify that the products described herein have been manufactured, inspected and conforms to standard as specified above.
ALL FITTINGS ARE HEAT TREATED TO MEET NACE MR0175-03 STANDARD SPECIFICATION AT 650-680 C x 1.0 HR.
CE = C + (Mn/6) + (Cr + Mo + V)/5 + (Ni + Cu)/15
ALL TEES ARE TESTED BY MAGNETIC PARTICLE EXAMINATION (MT)

Handwritten signature and blue circular stamp of the Chief of Quality Assurance Dept.

Chief of Quality Assurance Dept