



Head Office : 395/5 Silom Road, Bang Rak, 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

Purchaser : PLESA ANAHUAC Y CIAS. SA DE C.V. Certificate No : 140012 Page 1/3
Product : CARBON STEEL FITTINGS MADE FROM SEAMLESS PIPES Order No : PO. 17201
Specification : ASTM A-234 WPB - 2011A Date : DECEMBER 28, 2013
: ASME SA234 WPB L/C No : M930449

Table with 4 columns: Raw Material Standard, Inspection Standard, Visual Inspection, Dimensional Inspection. Values include ASTM A106 B / A53B / API5LB, ANSI B16.9, PASS, and PASS.

Table with 5 columns: Product & Size (inch), Heat ID., Quantity, Heat NO., Raw Material Maker. Lists 11 items such as 90 ELBOW LR SCH40, 45 ELBOW LR SCH40, and CON RED SCH40.

Table with 18 columns: Standard, Chemical Composition %, Mechanical Test, Average Hardness, CE Long Formula. Includes rows for Min., Max., and items 1-11.

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



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Table with 4 columns: Purchaser, Product, Specification, Certificate No, Order No, Date, L/C No. Values include PLESA ANAHUAC Y CIAS. SA DE C.V., CARBON STEEL FITTINGS MADE FROM SEAMLESS PIPES, ASTM A-234 WPB - 2011A, ASME SA234 WPB, 140012 Page 2/3, PO. 17201, DECEMBER 28, 2013, M930449.

Table with 4 main columns: Raw Material Standard, Inspection Standard, Visual Inspection, Dimensional Inspection. Includes a detailed table with 5 columns: Product & Size (inch), Heat ID., Quantity, Heat NO., Raw Material Maker. Lists 11 items like CON RED SCH40, CON RED STD, ECC RED STD, 90 ELBOW LR SCH80.

Table with 2 main sections: Chemical Composition % and Mechanical Test. Includes a detailed table with 17 columns: Standard, C, Si, Mn, P, S, Cu, Ni, Cr, Mo, V, Nb, Al, YS, TS, E, Average Hardness, CE Long Formula. Lists 11 items with their respective chemical and mechanical properties.

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: ASME SA234 WPB L/C No : M930449

Table with 4 columns: Raw Material Standard, Inspection Standard, Visual Inspection, Dimensional Inspection. Rows include PIPE: ASTM A106 B / A53B / API5LB and PLATE: ASTM A516 Gr 50 / 60.

Table with 5 columns: Product & Size (inch), Heat ID., Quantity, Heat NO., Raw Material Maker. Lists items like 90 ELBOW LR SCH80, 45 ELBOW LR SCH80, etc.

Table with 18 columns: Standard, Chemical Composition %, Mechanical Test, Average Hardness, CE Long Formula. Includes rows for Min., Max., and items 1-5.

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