



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, Value, Certificate No, Order No, Date, L/C No. Includes Purchaser (PLESA ANAHUAC Y CIAS, SA DE C.V.), Product (CARBON STEEL FITTINGS), Specification (ASTM A-234 WPB / NACE MR-01-75 / ASME SA234 WPB), Certificate No (130102), Order No (PO. 13745), Date (FEBRUARY 25, 2013), L/C No (M929152).

Table with 4 columns: Raw Material Standard, Inspection Standard, Visual Inspection, Dimensional Inspection. Values include PIPE: ASTM A106 B / A53B / API5L B, ANSI B16.9, PASS, PASS.

Table with 6 columns: Product & Size (inch), Heat ID., Quantity, Heat NO., Raw Material Maker. Lists 11 items including TEE STD, RED TEE STD, CON RED STD, and 90 ELBOW LR XH with their respective specifications.

Table with 18 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. and Max. values and a detailed list of 11 items with their chemical and mechanical properties.

- 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 title: Chief of Quality Assurance Dept