

**PURCHASING ORDERS PROTOCOL FOR PRESSURE VESSEL QUALITIES.**

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**Quality: P 265 GH + AD WI / SA 516 GR. 60 N + S. 5**

1. Vacuum Degassed
2. Dimensional Tolerances: by default of the last version of the standard.
3. Certificates: 3.2 acc EN10204 by Lloyd's Register
4. Double certified as P265GH with ADW1 and ASME SA 516 Gr 60 Normalized + S5
5. Charpy impact test must be done in transversal orientation.
6. Colour marking in BLUE and WHITE, done with paint, on the edges of the plates
7. Quality and dimensions must be stamped on the plates (using low stress stamps)
8. CEV equal or less 0,41%

**Quality: SA 516 GR. 70 N + S. 5 / P 355 NLI**

1. Vacuum Degassed
2. Dimensional Tolerances: by default of the last version of the standard.
3. Certificates: 3.2 acc EN10204 by Lloyd's Register
4. Double Certified as SA516 Gr 70 Normalised + S5 and P355NL1  
The use of Nb as microalloyant with a max of 0.05% is acceptable.
5. Charpy impact test must be done in transversal orientation
6. Colour marking in YELLOW, done with paint, on the edges of the plates
7. Quality and dimensions must be stamped on the plates (using low stress stamps)
8. SA516 Gr 70 Resilience a -51°
9. CEV equal or less 0,41%

**Remark:**

The MTCs must include the certificate of analysis CMTR (Certified Material Test Report)

**COMERSID STEEL,SA.**