TPCO 气瓶\蓄能用无缝钢管(Cylinder & Accumulator)产品规格

无缝高压气瓶主要是用圆坯或钢管来生产。气瓶生产厂经常使用钢管进行生产。圆柱钢管就作为生产气瓶的原材料。这样生产的气瓶内外表面质量好、壁厚均匀、重量小、生产过程简化、效率高且成本低。

高压气瓶管的规格(Specification)

OD	Wall Thickness (mm)															
(mm)	4.5	4.6	5.4	5.5	5.7	6.0	6.3	6.6	7.3	7.5	8.3	8.5	9.0	14	18	20
133.0																
152.0						24.01										
165.0		20.11														
219.0					33.05											
232.0			33.44													
267.0							44.88	46.75	51.72		62.59					
279.0										55.49		62.59				
299.0														106.26	137.02	151.03
406.0														149.11		

注：壁厚公差：-0～+25%

化学成分(Chemical composition)

Steel Grade	Chemical composition (%)										
	C	Si	Mn	P	S	P+S	Cr	Mo	Ni	Cu	V
30CrMo	0.26-0.34	0.17-0.37	0.40-0.70	≤0.030	≤0.025	≤0.050	0.80-1.10	0.15-0.25		≤0.20	
30CrMo (30CrMo4)	0.32-0.39	0.17-0.37	0.40-0.70	≤0.030	≤0.035	≤0.050	0.80-1.10			≤0.20	
37Mn/1	0.36-0.40	0.17-0.37	1.50-1.75	≤0.030	≤0.025	≤0.050	≤0.30			≤0.20	
37Mn/2	0.34-0.38	0.17-0.37	1.45-1.70	≤0.030	≤0.025	≤0.050	≤0.30			≤0.20	
37Mn/3	0.30-0.37	0.17-0.37	1.40-1.75	≤0.035	≤0.035	≤0.050	≤0.30	≤0.10	≤0.30	≤0.20	0.07-0.12

力学性能(Mechanical performance)

Steel Grade	Heat Treatment System for Specimen	Mechanical properties			
		Tensile Strength * (≥MPa)	Yield Strength * (≥MPa)	Elongation (≥%)	Ballistic Work (≥J)
30CrMo	Quenching 890+/-10℃ Tempering 650+/-10℃	780	660	16	55
30CrMo (30CrMo4)	Quenching 890+/-10℃ Tempering 650+/-10℃	890	755	16	55
37Mn/1	Quenching 890+/-10℃ Tempering 650+/-10℃	730	520	16	30
37Mn/2	Quenching 890+/-10℃ Tempering 650+/-10℃	730	610	16	55
37Mn/3	Quenching 890+/-10℃ Tempering 650+/-10℃	730	520	16	30