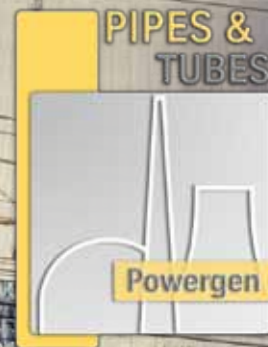
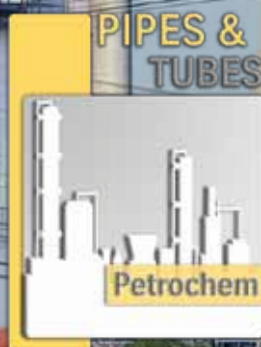


# Powergen/Petrochem Material Grades and Comparison of Grade Equivalents



	EN/DIN Grade	Steel	Standard	ASTM/ASME Grade	Standard
<b>Carbon Steel (CS) and Alloy Steel (AS)</b>	P235GH	1.0345	EN 10216-2	A	A53/A106
	P265GH	1.0425	EN 10216-2	B/A-1	A106/A210
				C	A106/A210
	16Mo3	1.5415	EN 10216-2		
	15NiCuMoNb5-6-4	1.6368	EN 10216-2		
				T11/P11	A213/A335
	13CrMo4-5	1.7335	EN 10216-2	T12/P12	A213/A335
	14MoV63	1.7715	EN 10216-2		
	10CrMo9-10	1.7380	EN 10216-2	T22/P22	A213/A335
	X11CrMo5	1.7362	EN 10216-2	T5/P5	A213/A335
	X11CrMo9-1	1.7386	EN 10216-2	T9/P9	A213/A335
	X10CrMoVNb9-1	1.4903	EN 10216-2	T91/P91	A213/A335
	X10CrWMoVNb9-2	1.4901	EN 10216-2	T92/P92	A213/A335
	X20CrMoV11-1	1.4922	EN 10216-2		
	X20CrMoV12-1	1.4922	DIN 17175		
<b>Stainless Steel (SS)</b>	X5CrNi18-10/X2CrNi19-11	1.4301/1.4306	EN 10216-5	TP 304/304L	A312
	X10CrNiCuNb18-9-3	1.4907	EN 10216-5*	UNS S30432 (304HCu)	A213
	X6CrNi18-10	1.4948	EN 10216-5	TP 304/304H	A312
	X6CrNiTi18-10	1.4541	EN 10216-5	TP 321/321H	A312
	X6CrNiNb18-10	1.4550	EN 10216-5	TP 347/347H	A312
	X8CrNi19-11	1.4908	EN 10216-5*	TP 347HFG	A213
	X6CrNiNbN25-20	1.4952	EN 10216-5*	TP 310HCbN (310N)	A213
	X5CrNiMo17-12-2/X2CrNiMo17-12-2	1.4401/1.4404	EN 10216-5	TP 316/316L	A312
	X6CrNiMoTi17-12-2	1.4571	EN 10216-5	TP 316Ti	A312
	X2CrNiMoN22-5-3	1.4462	EN 10216-5	UNS S31803 (DUPLEX)	A790
	X2XrNiMoCuWN25-7-4	1.4501	EN 10216-5	UNS S32760 (SUPER DUPLEX)	A790
	X1NiCrMoCu25-20-5	1.4539	EN 10216-5	UNS N08904 (TP 904L)	A312

\* following EN 10216-5

**ThyssenKrupp Mannex GmbH**

Hans-Günther-Sohl-Straße 1  
40235 Düsseldorf  
Telefon: +49 (0) 211 967-39528  
Telefax: +49 (0) 211 967-39527  
info.tubes@thyssenkrupp.com  
www.tk-mannex.com



**ThyssenKrupp Mannex**