EN10028-2 16Mo3 steel structure / steel work / steel machining parts

16Mo3 steel work is a pressure vessel steel that is applications with elevated temperatures according to EN 10028–2. It has improved mechanical properties and better creep resistance allowing it to be used up to 500°C. This makes it ideal for a wide range of uses where the plates will have to perform at a high temperature continuously.

16Mo3 Steel structure Applications

Typical applications for 16Mo3 include a wide range of power plant equipment, industrial exhaust, venting and flare systems and waste recycling and incineration plants. It is also valuable for machinery where parts are likely to remain hot for an extended period. In power plants it is regularly used in boilers, super heater tubes, collector and hot steam pipes, stove tubes and conduits. 16Mo3 is also used in various types of heat exchanger in both the upstream and downstream oil and gas industry.

Steel Grade		Chemical composition %														
Steel name	Steel	C	Si	Mn	P	S	Al	N	Cr	Cu	Mo	Nb	Ni	Ti	V	other

	number				≤	≤	total							≤		
16Mo3	1.5415	0.12-0.20	≤0.35	0.40-0.90	0.025	0.010		≤0.012	≤0.30	≤0.30	0.25-0.35	-	≤0.30	-	-	-

16Mo3 Steel Structure Chemical Composition

16Mo3 Steel Work Mechanical Properties (for transverse specimens)

Steel Grade		General delivery conditions	Steel Thickness t	Room Temperature Tensile			Impact energy KV , J Min The following temperature (℃)		
				Yield strength ReH	Tensile strength	Elongation A			
Steel name	Steel number		mm	MPa min	MPa	% min	- 20	0	+ 20
16Mo3	1.5415	+N	≤16	275	440 ~ 590	22	f	f	31
			16 < t≤40	270					
			40 < t≤ 60	260					

			60 < t≤ 100	240	430 ~ 560				
			100 < t≤150	220	420 ~ 570				
			150 < t≤ 250	210	410 ~ 570				

Traditionally the blast furnaces are made of standard carbon pressure vessel steels, but 16Mo3 steel machining parts provides a good alternative as it is more resistant to the huge thermal stresses that it undergoes on a daily basis. The 16Mo3 steel machining parts is also more resistant to the corrosion formed by nitrates as nitrogen oxide is removed from the steel mix. And this combination of properties can increase the life expectancy of critical plant equipment and reduce downtime. For 16Mo3 steel machining parts heat resistance is provided by the 0.32% molybdenum alloying element.

Katalor have owned the global reputation for supply the high quality 16Mo3 steel structure, if we have the size in stock, we can deliver them at once. If not, it will take about 20 days for us to produce the 16Mo3 steel work for you. Please contact our sales team if you have any inquiry about the 16Mo3 steel machining parts, we will offer you the competitive price with best price in China.

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