

CAST STEEL GRADES MANUFACTURED

		Chemical Requirements					Tensile Requirements			
ASTM A27 / A27M										
	Max % / Range					Min. ksi [Mpa] / Range		Min. %		
STEEL GRADE	Carbon	Manganese	Silicon	Sulfur	Phosphorus	Tensile Strength	Yield Point	Elongation in 2 in.	Reduction of Area	
ASTM A27, Grade N-1	0,25	0,75	0,80	0,06	0,05	N/A	N/A	N/A	N/A	
ASTM A27, Grade N-2	0,35	0,60	0,80	0,06	0,05	N/A	N/A	N/A	N/A	
ASTM A27, Grade U60-30	0,25	0,75	0,80	0,06	0,05	60 [415]	30 [205]	22	30	
ASTM A27, Grade 60-30	0,30	0,60	0,80	0,06	0,05	60 [415]	30 [205]	24	35	
ASTM A27, Grade 65-35	0,30	0,70	0,80	0,06	0,05	65 [450]	35 [240]	24	35	
ASTM A27, Grade 70-36	0,35	0,70	0,80	0,06	0,05	70 [485]	36 [250]	22	30	
ASTM A27, Grade 70-40	0,25	1,20	0,80	0,06	0,05	70 [485]	40 [275]	22	30	
		Chemical Requirements					Tensile Requirements			
ASTM A148 / A148M										
	Max % / Range					Min. ksi [Mpa] / Range		Min. %		
STEEL GRADE	Carbon	Manganese	Silicon	Sulfur	Phosphorus	Tensile Strength	Yield Point	Elongation in 2 in.	Reduction of Area	
ASTM A148, Grade 80-40	N/A	N/A	N/A	0,06	0,05	80 [550]	40 [275]	18	30	
ASTM A148, Grade 80-50	N/A	N/A	N/A	0,06	0,05	80 [550]	50 [345]	22	35	
ASTM A148, Grade 90-60	N/A	N/A	N/A	0,06	0,05	90 [620]	60 [415]	20	40	
		Chemical Requirements					Tensile Requirements			
ASTM A216 / A216M										
	Max % / Range					Min. ksi [Mpa] / Range		Min. %		
STEEL GRADE	Carbon	Manganese	Silicon	Sulfur	Phosphorus	Tensile Strength	Yield Point	Elongation in 2 in.	Reduction of Area	
ASTM A216, Grade WCA	0,25	0,70	0,60	0,045	0,04	60-85 [415-585]	30 [205]	24	35	
ASTM A216, Grade WCB	0,30	1,00	0,60	0,045	0,04	70-95 [485-655]	36 [250]	22	35	
ASTM A216, Grade WCC	0,25	1,20	0,60	0,045	0,04	70-95 [485-655]	40 [275]	22	35	