

Fe-Fe<sub>3</sub>C

(0.005-2.11)% C.

2% C

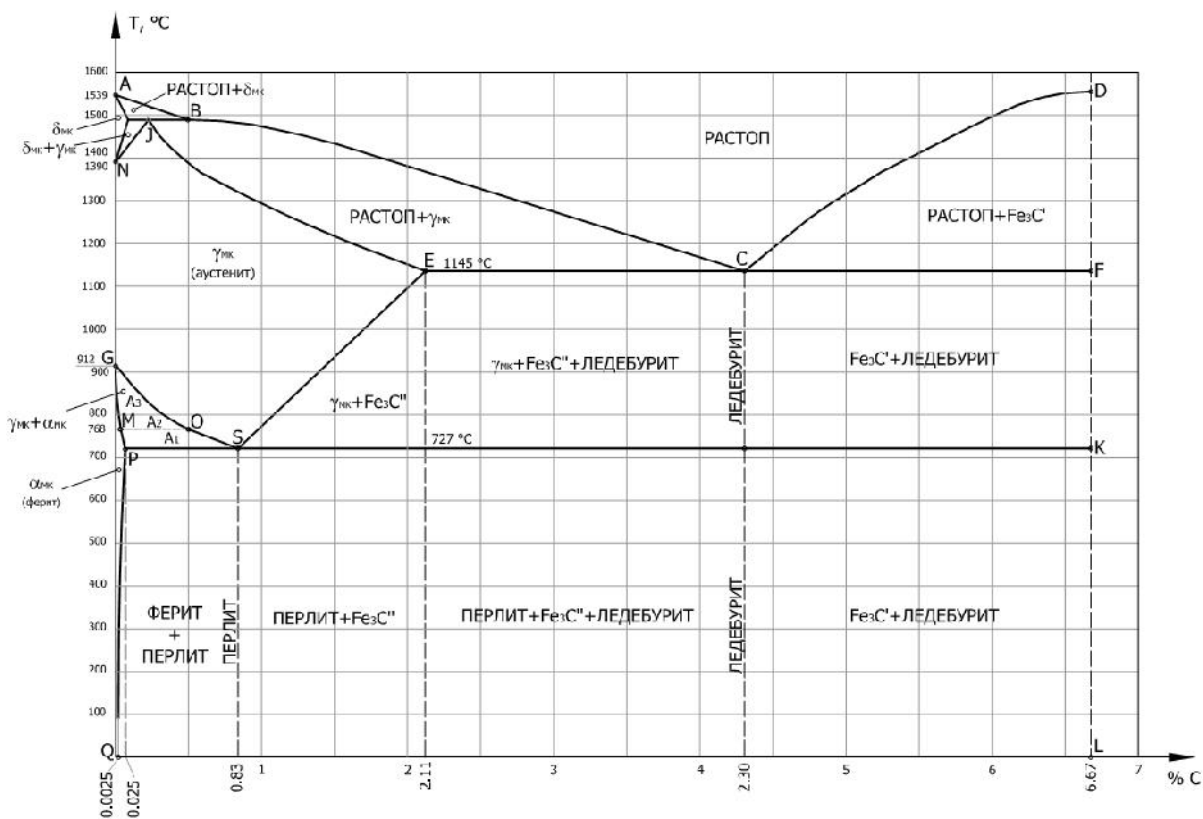
Fe<sub>3</sub>C

(Fe-Fe<sub>3</sub>C)

(Fe-Cg).

(Fe-Fe<sub>3</sub>C),

( Mn).



(Fe-Cg)

( )

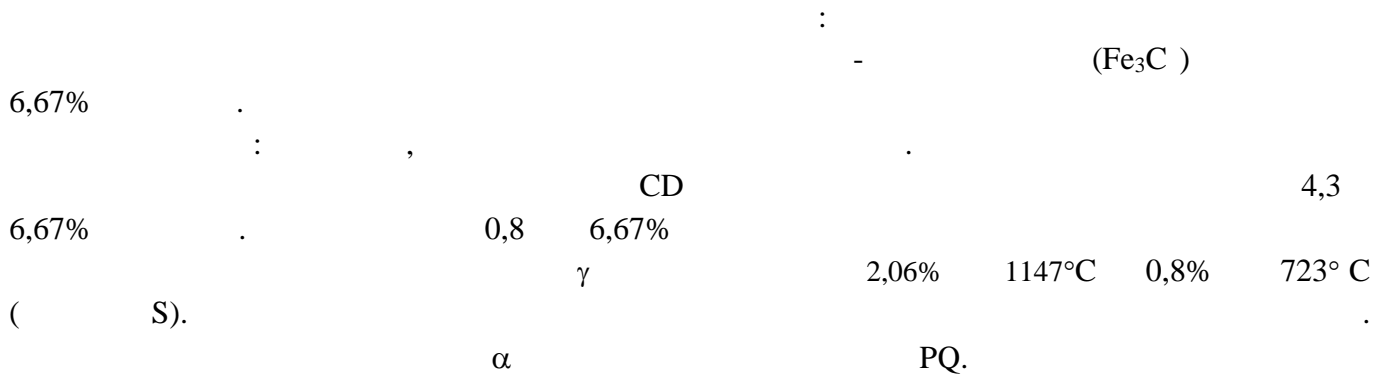
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Fe-Fe<sub>3</sub>C :

1. : R+δ  $\xleftrightarrow{1493^{\circ}\text{C}}$  γ

2. R  $\xleftrightarrow{1147^{\circ}\text{C}}$  γ+ Fe<sub>3</sub>C ( - )

3. γ  $\xleftrightarrow{723^{\circ}\text{C}}$  α+ Fe<sub>3</sub>C ( - )



( . Sir William Chandler Roberts-Austen 1843-1902) je .

γ Fe 2,06% 1147°C.

(r)- α- (Fe<sub>α</sub>)  
α-

Fe 0,025% 723°C 0,008%

4,3% ( )  
1147°C.

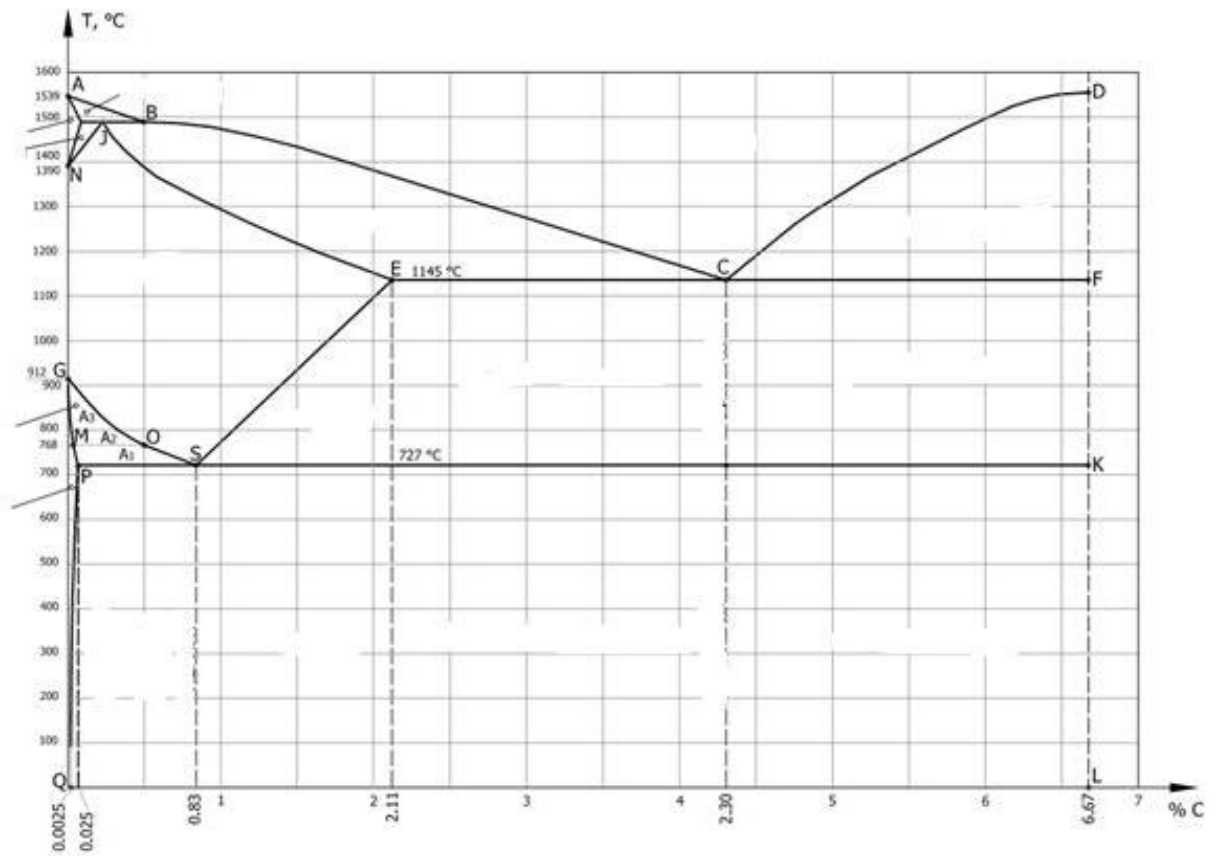
0,8% C , γ-

1. Fe-Fe<sub>3</sub>C :

2. :

3. :

4. Fe-Fe<sub>3</sub>C



5. Fe-Fe<sub>3</sub>C

6. 0,4%mas C ( ), 0,8% 1,2%C :  
 ) 850° C, ) 723° C ) 723°C.

:  
 0,4mas% C ( )

) =850°C 100%γ ( )

) 0723°C r +x ( )

$$\%r = \frac{0,4 - 0,025}{0,7 - 0,025} = 0,56 = 56\% r$$

$$\%x = 1 - 0,56 = 0,44 = 44\% x$$

) M 723°C                      α+Fe<sub>3</sub>C (                      )

$$\%r = \frac{6,67 - 0,4}{6,67 - 0,025} = 0,94 = 94\% r$$

$$\%Fe_3C = 1 - 0,94 = 5,6\% Fe_3C$$

**0,8 % C**

) =850°C    100%γ (                      )

) 0723°C    100%γ (                      )

) M 723°C    100%

88% α    12%Fe<sub>3</sub>C

$$\%r = \frac{6,67 - 0,8}{0,8 - 0,025} = 0,88 = 88\% r$$

$$\%Fe_3C = 1 - 0,88 = 12\% Fe_3C$$

**1,2mas% C**

) =850°C    100%γ (                      )

) 0723°C                      x + Fe<sub>3</sub>C

$$\%x = \frac{6,67 - 1,2}{6,67 - 0,025} = 0,83 = 83\% x$$

$$\%Fe_3C = 1 - 0,83 = 17\% Fe_3C$$

) M 723°C    α+ Fe<sub>3</sub>C

$$\%r = \frac{6,67 - 1,2}{6,67 - 0,025} = 0,83 = 83\% r$$

$$\%Fe_3C = 1 - 0,83 = 17\% Fe_3C$$