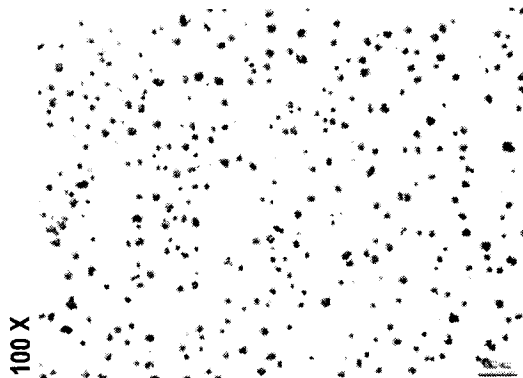


CAST IRON SPECIFICATION

Type FL S2

Chemical Composition

Elements	C	Si	Mn	Cr	P	Ni	Cu	Mo	S	Sn	V	Mg
Min. value	3,00	2,30	=	=	=	0,6	=	=	=	=	=	0,02
Max. value	3,60	3,20	0,30	0,10	0,20	1,4	=	=	0,04	=	=	0,08



100 X

Structure

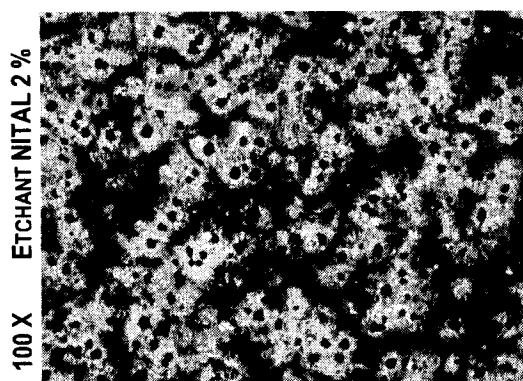
Graphite Spheroidal Type VI distrib. A (6 + 8)
UNI EN ISO 945

Matrix Tempered martensite. Allowed carbides and partially bainite structure

Steadite Absent

Free Ferrite Absent

Carbides Traces



100 X ETCHANT NITAL 2 %

Mechanical Properties

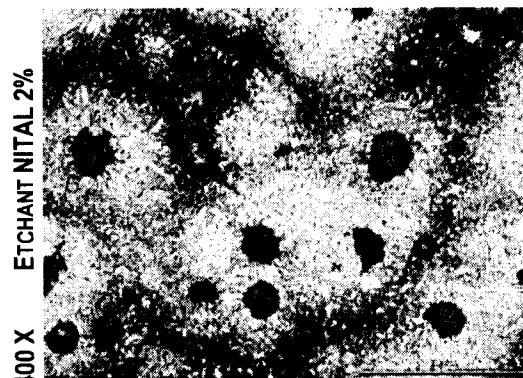
Tensile strength - R $\geq$ 900 N/mm²

Bending strength $\geq$ 1500 N/mm²

Hardness = 260 ÷ 350 HBS

= 104 ÷ 112 HRB

Modulus of Elasticity = 140.000 ÷ 170.000 N/mm²



400 X ETCHANT NITAL 2 %

Elongation % = 2 %

Heat Treatment

➤ Hrdened and tempered