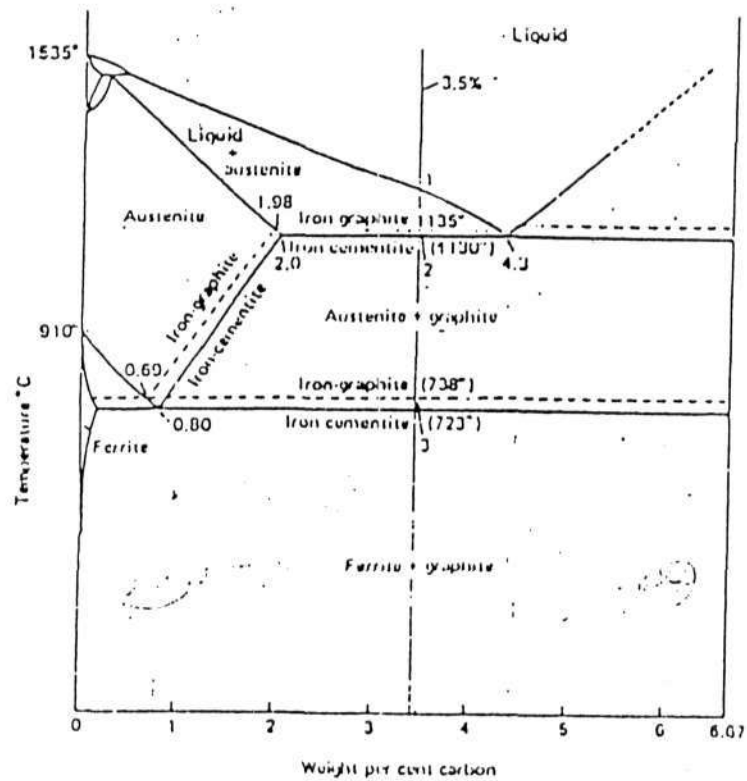
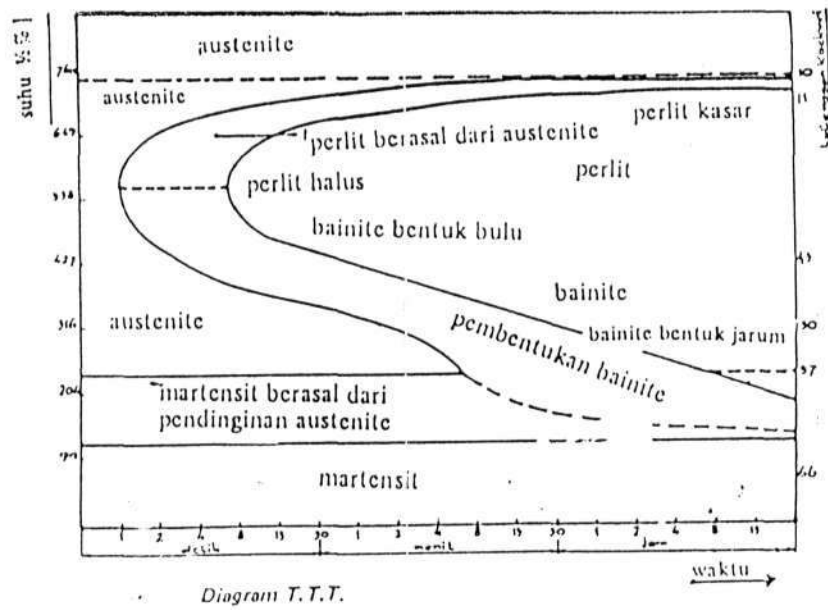


Lampiran 1 : Grafik Fe₃C dan Diagram TTT Besi tuang

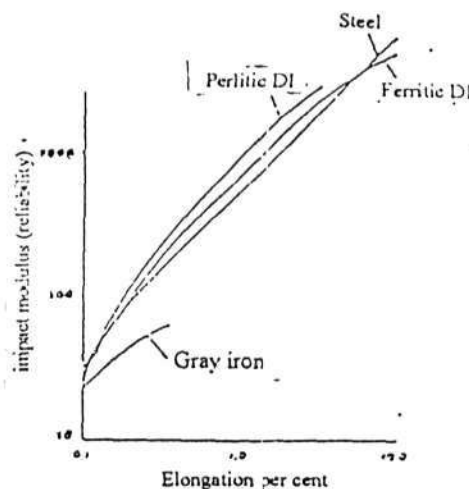


Lampiran 2 : Sifat - sifat fisik BTN dengan material alternatif lain

Sifat-sifat Fisik BTN dan Material Alternatif Lainnya. ⁽¹⁸⁾

Property	Type of steel / iron						
	120-90-02	80-55-06	60-45-12	60-40-18	0.3% Cast Steel	Malleable Iron	Gray Iron
Vibration damping	Good	Good	Good	Very good	Poor	Good	Excellent
Specific heat (Btu/lb/°F)	0.15	0.14	0.13	0.13	0.11	0.12	0.13
Thermal Conductivity (cal/cmsec°C)	0.06	0.08	0.09	0.10	0.11	0.14	0.11
Modulus of stress (psi)	0.62-0.75 x UTS	0.62-0.75 x UTS	0.62-0.75 x UTS	0.62-0.75 x UTS	30500	0.65-0.8 x UTS	-
Modulus elasticity (psi)	25.7x10 ⁶	25.2x10 ⁶	23.8x10 ⁶	23.8x10 ⁶	30.5x10 ⁶	25x10 ⁶	18.3x10 ⁶
Torsional strength (psi)	108000	72000	58000	50000	-	34000	40000
Modulus rigidity (psi)	9.6x10 ⁶	9.6x10 ⁶	9.3x10 ⁶	9.1x10 ⁶	11.4x10 ⁶	11x10 ⁶	7.1x10 ⁶

Dari Tabel dapat diketahui bahwa BTN mempunyai kapasitas redaman yang lebih baik, demikian juga dalam specific heat dan thermal conductivity daripada baja tuang 0.3% C.



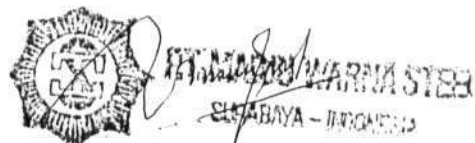
PT. MADJU WARNA STEEL
SURABAYA - INDONESIA
Jl. Rungkut Industri III No :45 Surabaya

ANALISIS CHEMICAL COMPOSITION AFTER INOCULATION

CONT	N = 1	N = 2	AVERAGE
FE	0.1724	0.1733	0.17285
C	3.3515	3.1047	3.2281
SI	2.641	2.6225	2.63175
MNI	0.52062	0.52775	0.524185
P	0	0	0
S	0.01846	0.0217	0.02008
CR	0.7645	0.07535	0.419925
NI	0	0	0
MO	0.3281	0.02983	0.178965
CU	0	0	0
AL	0.03612	0.03464	0.03538
SN	0.04579	0.04633	0.04606
PB	0.01865	0.01913	0.01889

Play Mode : 1 Print mode : M1 Trans.Mode : M File Mode : M N:02 AN : 38 TAN:1998
 No. : [FC-NEW] ST-No. : [] [120698[FCD-40] UJI SMP.34]
 Ienu 2:Job 3: Mode0 4: Model 6 : AGsel
 rat 4: Print 5 : File 6 : Trans 8 : - HV

Surabaya , 17 Juli 1998



(**Made Suwirta**)
 Ka. Laboratorium