



Characteristic of DEX20 and DEX40

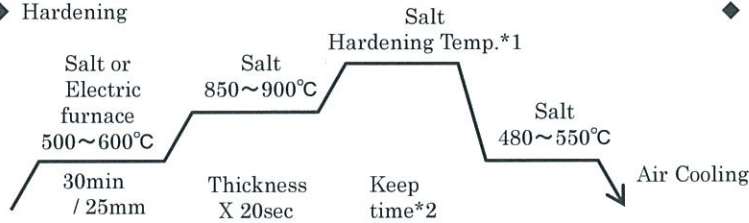
1. Chemical composition

Grade	C	Cr	Mo	W	V	Co
DEX20	1.3	4.0	5.0	6.5	3.0	—
DEX40	1.3	4.0	5.0	6.5	3.0	8.0

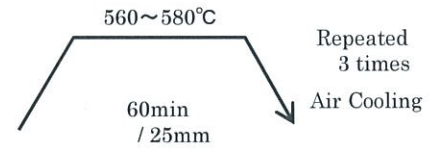
2. Heat treatment conditions

Annealing	Hardness (HB)	Hardening (°C)	Tempering (°C)	Hardness (HRC)	Purpose
800 ~ 880°C Slow cooling	≧285	1150 ~ 1180	560 ~ 580	≧63	For wear resistance
		1100 ~ 1150	560 ~ 580	≧60	For high toughness
800 ~ 880°C Slow cooling	≧285	1180 ~ 1220	560 ~ 600	≧64	For wear resistance
		1100 ~ 1180	540 ~ 590	≧62	For high toughness

◆ Hardening



◆ Tempering



*1: Hardening Temp.

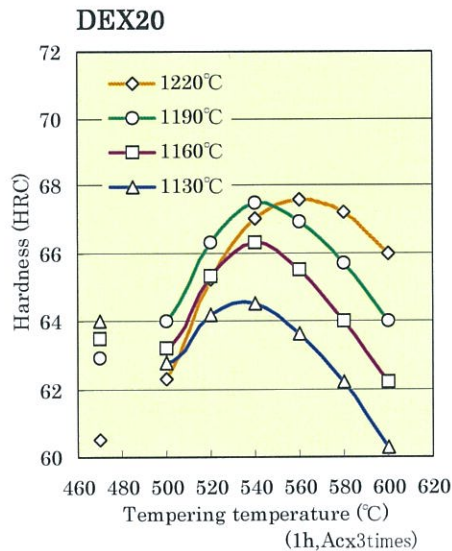
Grade	For wear resistance	For high toughness
DEX20	1500°C (63~65HRC)	1100°C (60~62HRC)
	1180°C (65~67HRC)	1100°C (63~65HRC)

*2: Standard Keeping time

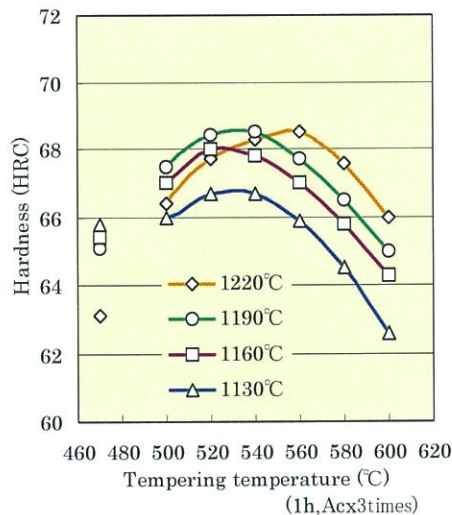
Size D (Dia or Thickness mm)	Immersing time(Sec)
8 and under	12 D
8 ~ 20	10 D
20 ~ 50	8 D
50 ~ 70	7 D
70 ~ 100	6 D
100 and over	5 D

3. Technical data

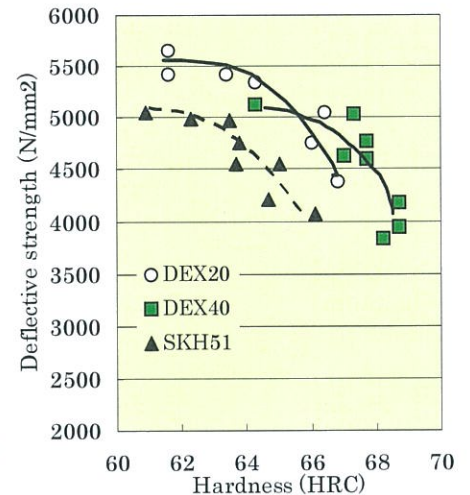
Tempering hardness



DEX40



Deflection test



1180°C 550°C 3回.