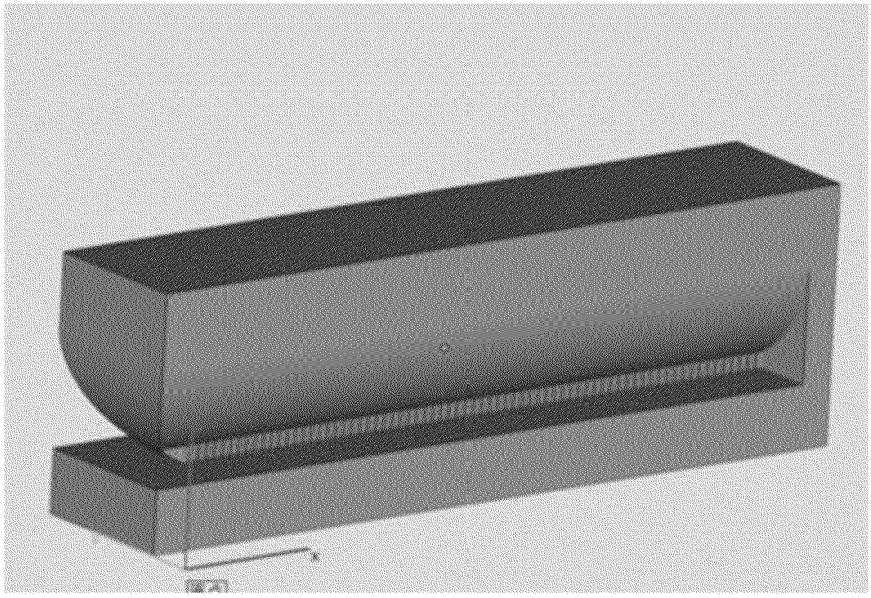
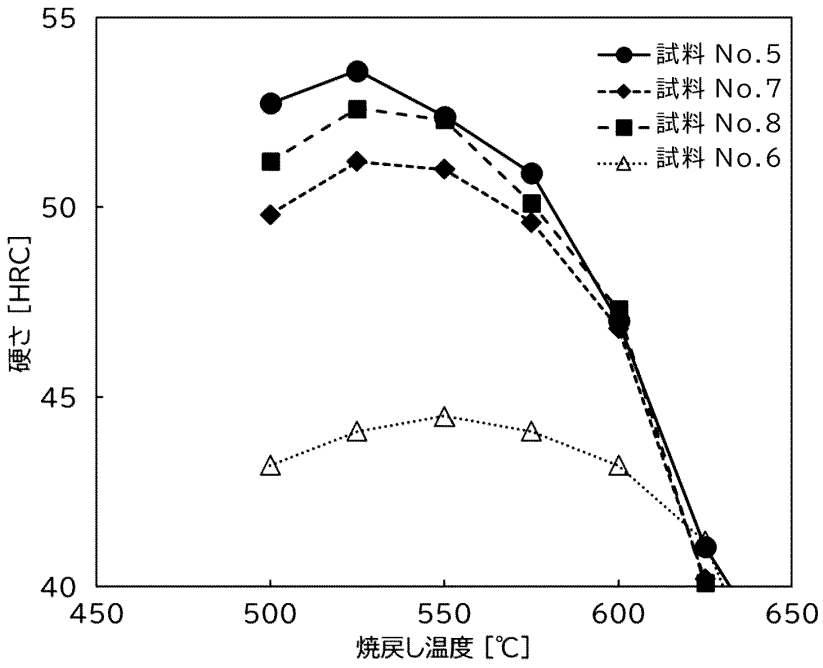
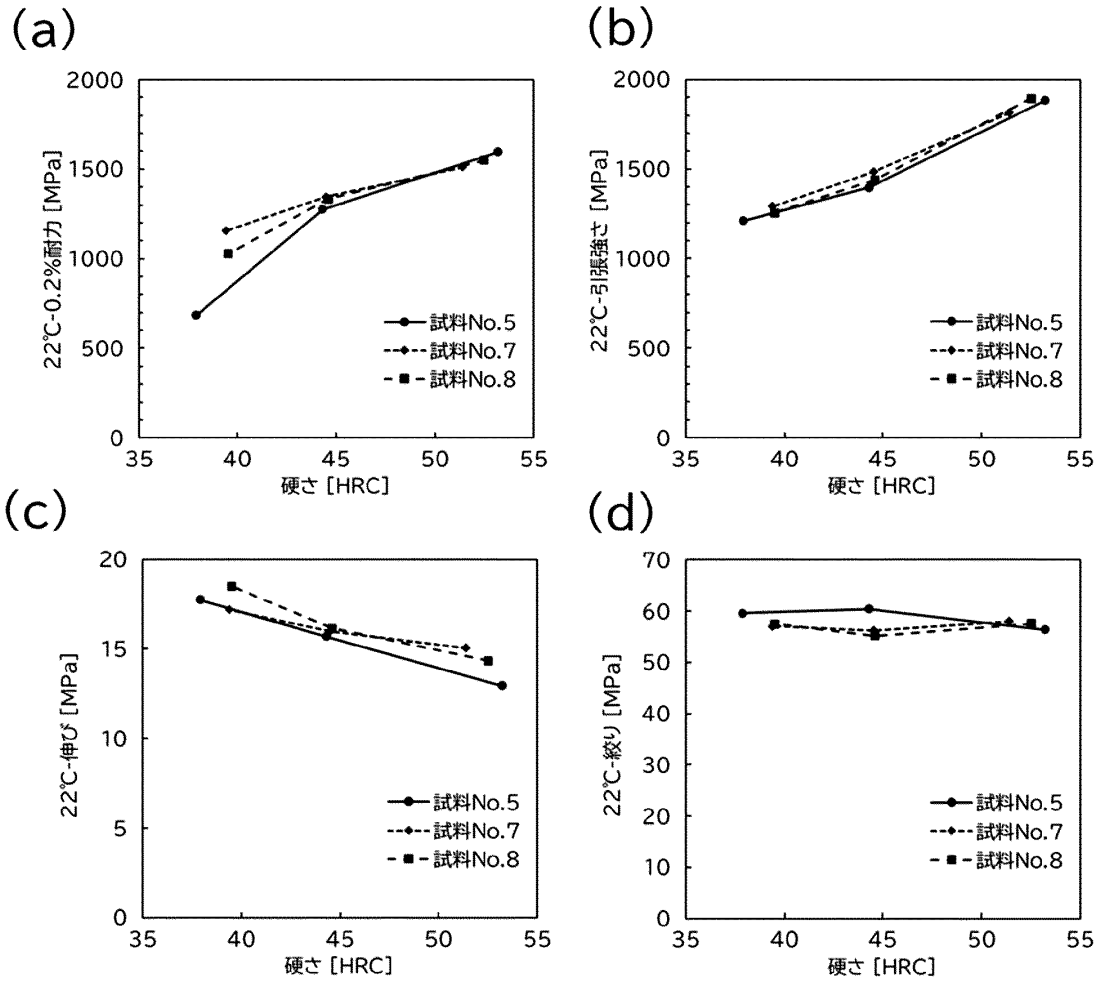
[図1]



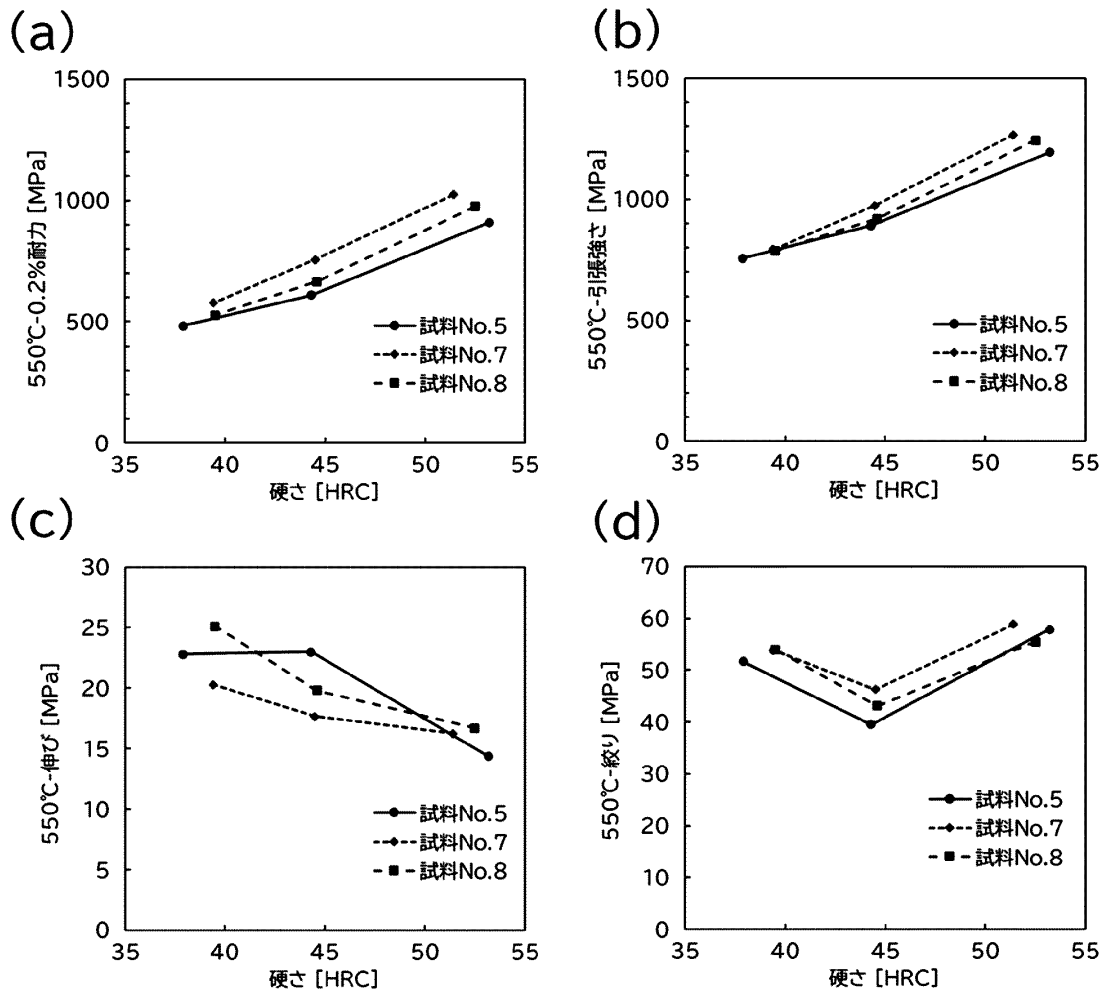
[図2]


55
50
45
40
硬さ [HRC]
450
500
550
600
650
焼戻し温度 [℃]
試料 No.5
試料 No.7
試料 No.8
試料 No.6

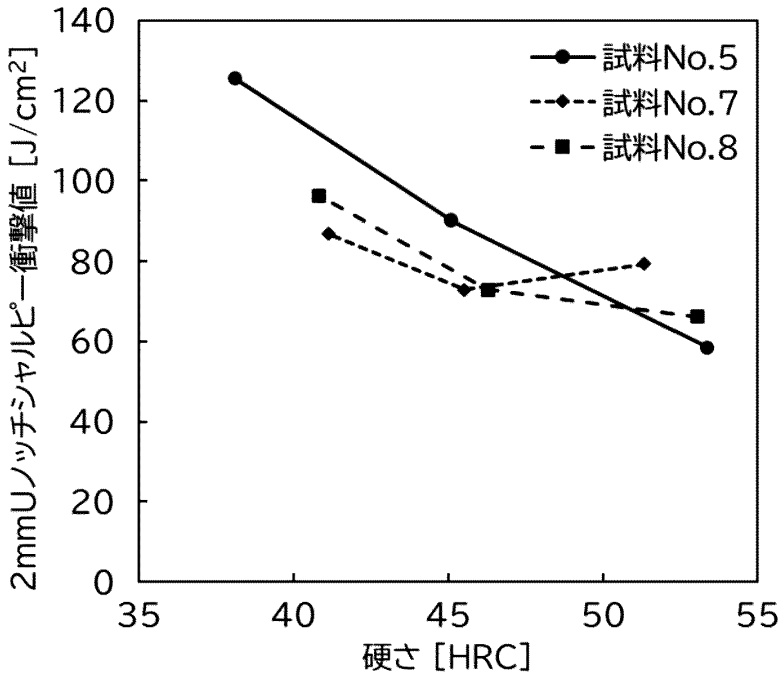
[図3]


(a)
22℃-0.2%耐力 [MPa]
2000
1500
1000
500
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8
(b)
22℃-引張強さ [MPa]
2000
1500
1000
500
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8
(c)
22℃-伸び [MPa]
20
15
10
5
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8
(d)
22℃-絞り [MPa]
70
60
50
40
30
20
10
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8

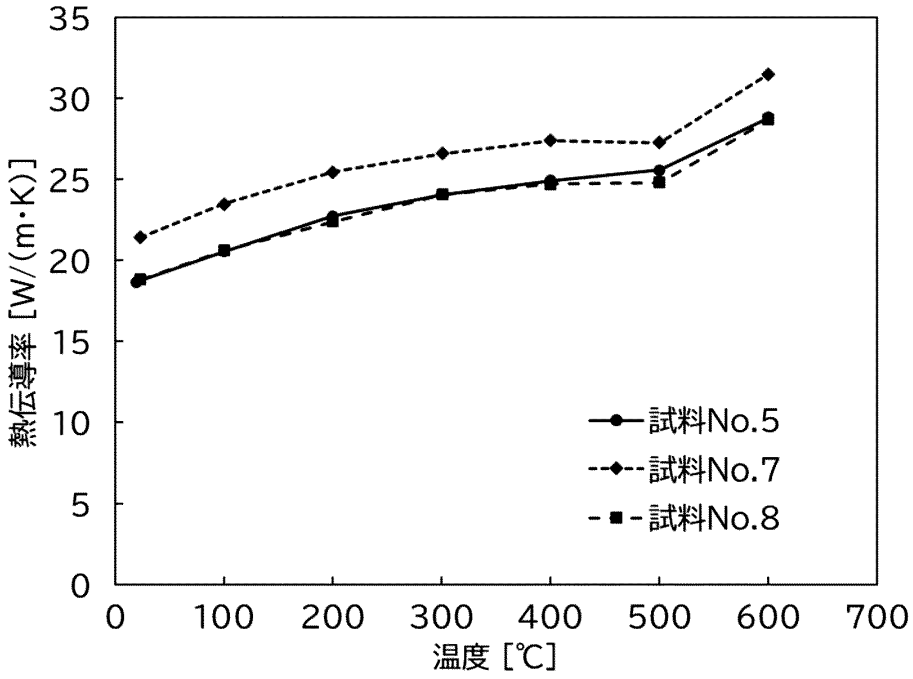
[図4]


(a)
550℃-0.2%耐力 [MPa]
1500
1000
500
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8
(b)
550℃-引張強さ [MPa]
1500
1000
500
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8
(c)
550℃-伸び [MPa]
30
25
20
15
10
5
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8
(d)
550℃-絞り [MPa]
70
60
50
40
30
20
10
0
35
40
45
50
55
硬さ [HRC]
試料No.5
試料No.7
試料No.8

[図5]


140
120
100
80
60
40
20
0
35
40
45
50
55
2mmUノッチシャルピー衝撃値 [J/cm²]
硬さ [HRC]
試料No.5
試料No.7
試料No.8

[図6]


35
30
25
20
15
10
5
0
0
100
200
300
400
500
600
700
熱伝導率 [W/(m·K)]
温度 [℃]
試料No.5
試料No.7
試料No.8