



# Material Data Sheet Aluminum Alloys

## 850

Chemical Composition  
(% max, unless shown as range or min.)

	Al	Sn	Ti	Zn	Ni	Cr	Mn	Mg	Cu	Fe	Si
Minimum		5.50			.70				.70		
Maximum	Balance	7.00	.20		1.30		.10	.10	1.30	.70	.70

## 852

Chemical Composition  
(% max, unless shown as range or min.)

	Al	Sn	Ti	Zn	Ni	Cr	Mn	Mg	Cu	Fe	Si
Minimum		5.50			.90		.60		.70		
Maximum	Balance	7.00	.20		1.50		.90	.10	1.30	.70	.40

## 443

Chemical Composition  
(% max, unless shown as range or min.)

	Al	Sn	Ti	Zn	Ni	Cr	Mn	Mg	Cu	Fe	Si
Minimum											4.50
Maximum	Balance		.25	.50		.25	.05	.50	.60	.80	6.00

### 850 Physical Properties

#### T5 Temper

Ultimate Tensile (ksi)	16.0
Yield (ksi in 0.2% Offset)	-
% Elongation in 2 inches	5.0
Typical BHN Hardness	30—60

### 852 Physical Properties

#### T5 Temper

Ultimate Tensile (ksi)	24.0
Yield (ksi in 0.2% Offset)	18
% Elongation in 2 inches	-
Typical BHN Hardness	45—75

### 443 Physical Properties

#### T5 Temper

Ultimate Tensile (ksi)	17.0
Yield (ksi in 0.2% Offset)	8
% Elongation in 2 inches	3.0
Typical BHN Hardness	25—55

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