

# 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
<b>Minimum</b>		5.50			.70				.70		
<b>Maximum</b>	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
<b>Minimum</b>		5.50			.90		.60		.70		
<b>Maximum</b>	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
<b>Minimum</b>											4.50
<b>Maximum</b>	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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