

# Product Information Sheet

ISSUE A

## ALLOY 673 Continuous Cast

A. W. Fraser Alloy 673 is a leaded manganese-silicon bronze conforming to the requirements of UNS 67300. Alloy 673 has excellent wear characteristics due to the formation of manganese silicide particles.

This alloy is available in continuous cast form.

The composition of A. W. Fraser alloy 673 is strictly controlled as are the casting conditions. Alloy 673 products are manufactured using the latest continuous casting technology.

### ALLOY 673 - Manganese Silicon Bronze

### SUMMARY OF PROPERTIES

#### Chemical Composition - percent [Typical]

Element		
Copper	Cu	60.5
Lead	Pb	1.2
Manganese	Mn	2.3
Silicon	Si	1.1
Iron	Fe	<0.35
Tin	Sn	<0.3
Zinc	Zn	Balance

#### Mechanical Properties [Typical]

Yield Strength  
Ultimate Tensile Strength  
Elongation  
Typical Hardness  
Specific Gravity  
Thermal conductivity  
Specific Heat  
Thermal Expansion  
Machinability

#### Continuous Cast

165 MPa (24,000 psi).  
379 MPa (55,000 psi).  
30%.  
60 Rockwell B  
8.3  
58 BTU (sqft-ft-hr-f)  
0.09 BTU/lb/°F at 68°F  
.000011 Per °F from 68°F to 572°F  
Good