Product Information Sheet

ISSUE A

ALLOY 486

A. W. Fraser Alloy 486 is a leaded arsenical brass with dezincification resistant properties conforming to the requirements of Australian Standard A.S. 1567 alloy 486.

486 is primarily a machining brass having good machining characteristics.

The composition of A. W. Fraser alloy 486 is strictly controlled as are the extrusion and finishing operations to achieve a constant standard of quality, properties and structure. All extrusions are manufactured from continuous cast billet stock ensuring uniform dispersion of lead particles and freedom from porosity.

To ensure optimum dezincification resistance, batches of 486 are heat treated prior to despatch.

Batches of 486 extrusions are tested after heat treatment for dezincification resistance in accordance with A.S. 2345 - 1992.

Note: No heating operation exceeding 550°C should be undertaken on alloy 486 as this will reduce the dezincification resistance (eg. silver soldering or brazing).

ALLOY 486 - DEZINCIFICATION RESISTANT BRASS SUMMARY OF PROPERTIES

Lead Pb 1.8 Arsenic As 0.2 Zinc Zn Balance Fotal Impurities 0.3 maximum Active of the second strength 200 MPa (29,000 psi) Active of the second strength 400 MPa (58,000 psi) Active of the second strength 30% Schongation 140 VPN Specific Gravity 8.44	Fin Sn 1.0 Lead Pb 1.8 Arsenic As 0.2 Zinc Zn Balance Fotal Impurities 0.3 maximum Aical Properties [Typical] Drawn Aical Strength 200 MPa (29,000 psi) Jltimate Tensile Strength 400 MPa (58,000 psi) Slongation 30% Fypical Hardness 140 VPN Specific Gravity 8.44 Machinability Good	Fin Sn 1.0 Lead Pb 1.8 Arsenic As 0.2 Zinc Zn Balance Fotal Impurities 0.3 maximum Aical Properties [Typical] Drawn Aical Strength 200 MPa (29,000 ps Jltimate Tensile Strength 400 MPa (58,000 ps Slongation 30% Fypical Hardness 140 VPN Specific Gravity 8.44 Machinability Good	Fin Sn 1.0 Lead Pb 1.8 Arsenic As 0.2 Zinc Zn Balance Fotal Impurities 0.3 maximum Mical Properties [Typical] Drawn Vield Strength 200 MPa (29,000 psi) Jltimate Tensile Strength 400 MPa (58,000 psi)
LeadPb1.8ArsenicAs0.2ZincZnBalanceTotal Impurities0.3 maximumDrawnYield StrengthDrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44	LeadPb1.8ArsenicAs0.2ZincZnBalanceTotal Impurities0.3 maximumDrawnYield StrengthDrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Lead Pb 1.8 Arsenic As 0.2 Zinc Zn Balance Total Impurities 0.3 maximum hanical Properties [Typical] Drawn Yield Strength 200 MPa (29,000 ps Ultimate Tensile Strength 400 MPa (58,000 ps Elongation 30% Typical Hardness 140 VPN Specific Gravity 8.44 Machinability Good	Lead Pb 1.8 Arsenic As 0.2 Zinc Zn Balance Total Impurities 0.3 maximum hanical Properties [Typical] Drawn Yield Strength 200 MPa (29,000 psi) Ultimate Tensile Strength 400 MPa (58,000 psi)
Arsenic As 0.2 Zinc Zn Balance Total Impurities 0.3 maximum chanical Properties [Typical] Drawn Yield Strength 200 MPa (29,000 psi) Ultimate Tensile Strength 400 MPa (58,000 psi) Elongation 30% Typical Hardness 140 VPN Specific Gravity 8.44	ArsenicAs0.2ZincZnBalanceTotal Impurities0.3 maximumchanical Properties [Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	ArsenicAs0.2ZincZnBalanceTotal Impurities0.3 maximumchanical Properties [Typical]Vield Strength200 MPa (29,000 psVield Strength400 MPa (29,000 psUltimate Tensile Strength400 MPa (58,000 psElongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Arsenic As 0.2 Zinc Zn Balance Total Impurities 0.3 maximum chanical Properties [Typical] Drawn Yield Strength 200 MPa (29,000 psi) Ultimate Tensile Strength 400 MPa (58,000 psi)
ZincZnBalanceTotal Impurities0.3 maximumEchanical Properties[Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44	ZincZnBalanceTotal Impurities0.3 maximumTotal Impurities0.3 maximumRechanical Properties[Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	ZincZnBalanceTotal Impurities0.3 maximum Chanical Properties [Typical]Prield StrengthDrawnYield Strength200 MPa (29,000 psUltimate Tensile Strength400 MPa (58,000 psElongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Zinc Zn Balance Total Impurities 0.3 maximum echanical Properties [Typical] Drawn Yield Strength 200 MPa (29,000 psi) Ultimate Tensile Strength 400 MPa (58,000 psi)
Total Impurities0.3 maximumechanical Properties[Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44	Total Impurities0.3 maximumIechanical Properties[Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Total Impurities0.3 maximumechanical Properties[Typical]DrawnYield Strength200 MPa (29,000 psUltimate Tensile Strength400 MPa (58,000 psElongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Total Impurities0.3 maximumechanical Properties[Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)
echanical Properties [Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44	echanical Properties [Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	echanical Properties [Typical]DrawnYield Strength200 MPa (29,000 psUltimate Tensile Strength400 MPa (58,000 psElongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	echanical Properties [Typical]DrawnYield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)
Yield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44	Yield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Yield Strength200 MPa (29,000 psUltimate Tensile Strength400 MPa (58,000 psElongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Yield Strength200 MPa (29,000 psi)Ultimate Tensile Strength400 MPa (58,000 psi)
Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44	Ultimate Tensile Strength400 MPa (58,000 psi)Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Ultimate Tensile Strength400 MPa (58,000 psElongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Ultimate Tensile Strength 400 MPa (58,000 psi)
Elongation30%Typical Hardness140 VPNSpecific Gravity8.44	Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Elongation30%Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	
Typical Hardness140 VPNSpecific Gravity8.44	Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Typical Hardness140 VPNSpecific Gravity8.44MachinabilityGood	Elongation 30%
Specific Gravity 8.44	Specific Gravity8.44MachinabilityGood	Specific Gravity8.44MachinabilityGood	
	Machinability Good	Machinability Good	
	Cold working Fair		