

## Goodfellow Iron 77.5/Boron 15/Silicon 7.5 Alloy

Category : Metal , Ferrous Metal , Superalloy , Iron Base

**Material Notes:**

Metallic glasses (glassy alloys) or amorphous metals. Uses include soft magnetic applications, brazing, coating and as reinforcing fibers. Information provided by Goodfellow.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Goodfellow-Iron-775Boron-15Silicon-75-Alloy.php](http://www.lookpolymers.com/polymer_Goodfellow-Iron-775Boron-15Silicon-75-Alloy.php)

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	940	940	kg(f)/mm <sup>2</sup>
Elongation at Break	2.3 %	2.3 %	
Tensile Modulus	155 GPa	22500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.70 $\mu\text{m}/\text{m}\cdot\text{C}$	4.83 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Crystallization Temperature	553 °C	1030 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	15 %	15 %	
Iron, Fe	77.5 %	77.5 %	
Silicon, Si	7.5 %	7.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000124 ohm-cm	0.000124 ohm-cm	
Curie Temperature	422 °C	792 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China