

## ThyssenKrupp FR-30® Fire Resistant Steel

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy Steel

**Material Notes:**

With the newly developed FR 30 fire resistant structural steel from TKS there is now the possibility, for the first time, to create steel structures with a fire resistance rating up to F30 without additional protection and without the otherwise customary fire protection precautions. It is possible to design structural components made from the FR steel in the unprotected condition, i.e. without any additional fire protection precautions, for fire exposure lasting up to 30 minutes (fire resistance rating F30) with extent-to-area ratios U/A = 60 to 100 m<sup>-1</sup>. Information Provided by Thyssen Krupp

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ThyssenKrupp-FR-30-Fire-Resistant-Steel.php](http://www.lookpolymers.com/polymer_ThyssenKrupp-FR-30-Fire-Resistant-Steel.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	460 - 620 MPa	66700 - 89900 psi	
Tensile Strength, Yield	>= 275 MPa	>= 39900 psi	
Elongation at Break	22 %	22 %	
Charpy Impact	27.0 J	19.9 ft-lb	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.15 %	<= 0.15 %	
Chromium, Cr	<= 0.85 %	<= 0.85 %	
Manganese, Mn	<= 1.4 %	<= 1.4 %	
Molybdenum, Mo	<= 0.40 %	<= 0.40 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	<= 0.40 %	<= 0.40 %	
Sulfur, S	<= 0.015 %	<= 0.015 %	
Vanadium, V	<= 0.060 %	<= 0.060 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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