

Latrobe LSS,ç H10A Modified

Category : Metal , Ferrous Metal , Alloy Steel , Chrome-moly Steel , Tool Steel , Hot Work Steel

Material Notes:

TLS H10 Mod. hot work tool steel is a chromium-molybdenum H10-type hot work steel which contains cobalt for increased strength and resistance to softening at elevated temperature. This grade is also very resistant to thermal fatigue cracking (heat checking), and can be water cooled in service. TLS H10 Mod. is recommended for difficult hot work tooling applications such as hot punches, die casting dies, forging dies, hot shear blades, hot gripper dies, and extrusion tooling. Information Provided by Timken Latrobe Steel. Timken sold Latrobe in December 2006. They are now Latrobe Specialty Steels Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Latrobe-LSS-H10A-Modified.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 7.78 g/cc | 0.281 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|--|
| Hardness, Rockwell C | 32 | 32 | Air Cooled from 1010 ^o C; 650 ^o C Temper Temperature |
| | 33 | 33 | Oil Quenched from 1010 ^o C; 650 ^o C Temper Temperature |
| | 35 | 35 | Air Cooled from 1066 ^o C; 650 ^o C Temper Temperature |
| | 35 | 35 | Oil Quenched from 1066 ^o C; 650 ^o C Temper Temperature |
| | 54.5 | 54.5 | Oil Quenched from 1010 ^o C; 482 ^o C Temper Temperature |
| | 55 | 55 | Air Cooled from 1010 ^o C; 482 ^o C Temper Temperature |
| | 56.5 | 56.5 | Air Cooled from 1066 ^o C; 482 ^o C Temper Temperature |
| | 59.5 | 59.5 | Oil Quenched from 1066 ^o C; 482 ^o C Temper Temperature |
| Modulus of Elasticity | 207 GPa | 30000 ksi | |
| Machinability | 90 - 95 % | 90 - 95 % | 1% Carbon Steel |

| Thermal Properties | Metric | English | Comments |
|--------------------|--|--|----------|
| CTE, linear | 11.3 $\mu\text{m/m-}^{\circ}\text{C}$ | 6.28 $\mu\text{in/in-}^{\circ}\text{F}$ | |
| | @Temperature 21.0 - 204 $^{\circ}\text{C}$ | @Temperature 69.8 - 399 $^{\circ}\text{F}$ | |
| | 13.5 $\mu\text{m/m-}^{\circ}\text{C}$ | 7.50 $\mu\text{in/in-}^{\circ}\text{F}$ | |

| Thermal Properties | Metric | English | Comments |
|--------------------|---------------------------------|----------------------------------|----------|
| | @ Temperature 21.0 - 538 Â°C | @ Temperature 69.8 - 1000 Â°F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------|---------|----------|
| Carbon, C | 0.35 % | 0.35 % | |
| Chromium, Cr | 3.3 % | 3.3 % | |
| Cobalt, Co | 2.0 % | 2.0 % | |
| Iron, Fe | 89.95 % | 89.95 % | |
| Manganese, Mn | 0.30 % | 0.30 % | |
| Molybdenum, Mo | 2.45 % | 2.45 % | |
| Silicon, Si | 1.0 % | 1.0 % | |
| Vanadium, V | 0.65 % | 0.65 % | |

| Chemical Properties | Metric | English | Comments |
|----------------------|---------|----------|----------|
| Critical Temperature | 830 Â°C | 1530 Â°F | Ac1 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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