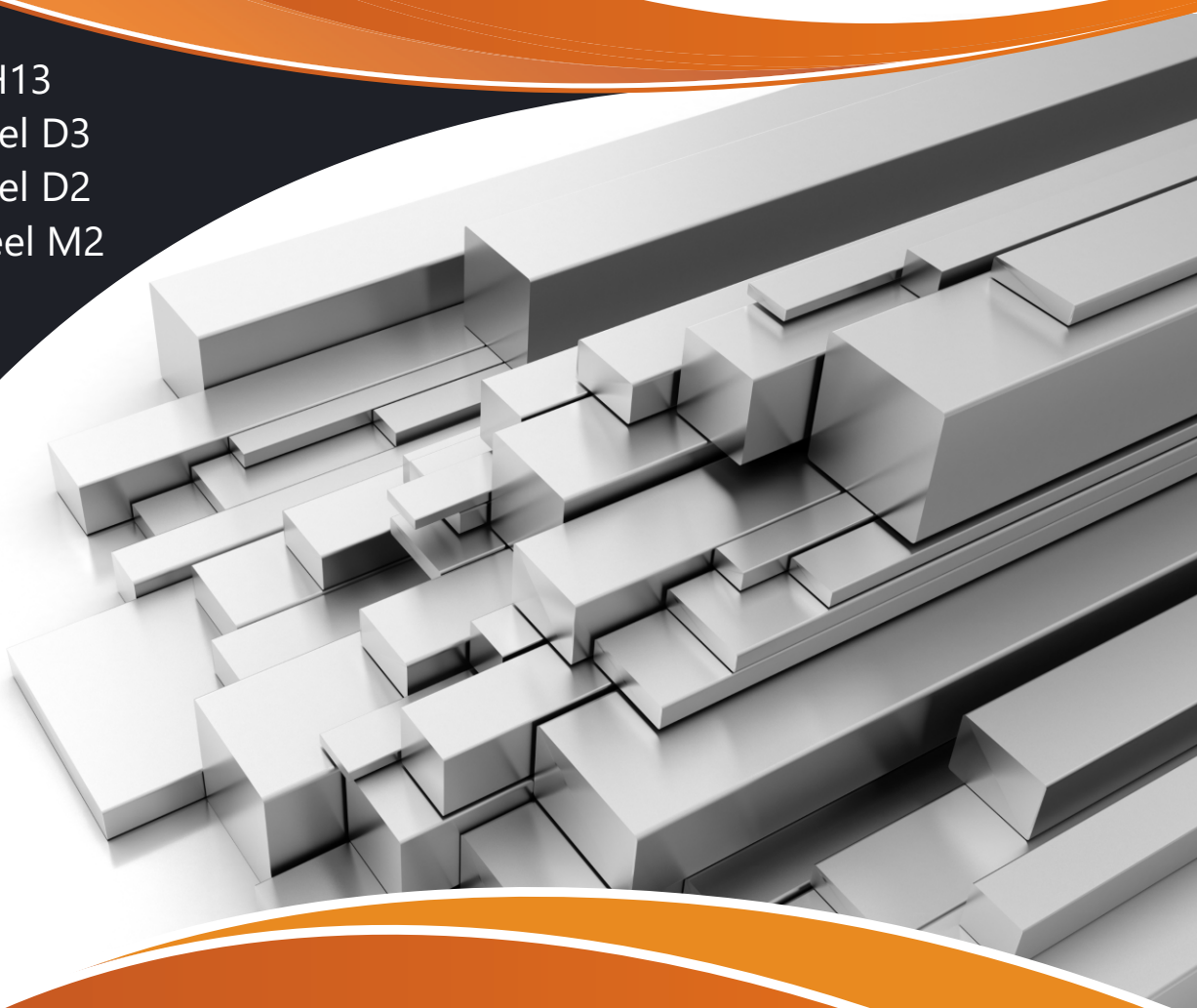


S BRIJ STEEL

SINCE 1984

- Hot Die Steel-H13
- HCHCR Die Steel D3
- HCHCR Die Steel D2
- High Speed Steel M2
- En31 Steel
- P20 Steel



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SCAN TO ORDER

About Us

Brij Steel Is Founded in 1984 by Mr. BrijMohan Gupta. We are one of the Most Reputable Firms in the Tool and Alloy Steel Industry. We believe that Trust is the most Valuable Asset and we strive to Maintain it by Standing by our Promises and Delivering on our Commitments.

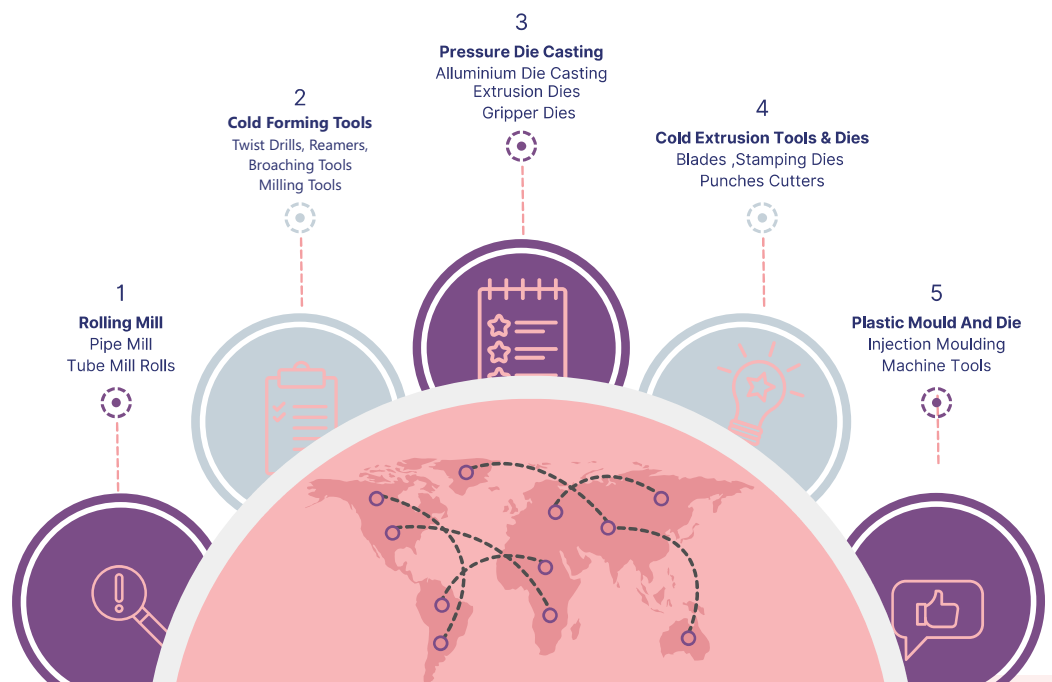
Our Vision

At Brij Steel , Our Vision is to Provide all Our Customers with the Highest Quality, Tested Steel (as per the Industry standards of Application) , So that our Customers can Trust what they are Getting.

Importance of Raw Material

As The Quality Of Production Depends on The Quality of Raw Material used in the Project , We Understand the fact that if the Customers Mold/Dies is Broken/Damaged during Development or Production, there is a wastage of Time and Resources. Thus The Raw Material Cost is only 20% to 30% (approx) of the total Project Cost.

Industries We Serve



Our Services



REASONABLE PRICES

We Strive to Provide our Customers with Quality Products at the Most Reasonable Prices.



CUSTOMISED CUTTING FACILITY

Our Customized Cutting Facility allows you to get the Exact Sizes you need for your Project



Tested Material With Certificate

We provide a Quality Test Certificate with Every Order to Ensure our Customers receive the Highest Quality Materials



Regularly Updates Stock List :

We have each and every Piece listed in as our Stock List as it is Regularly Updated by the Team.



Proper Tracking :

We provide Timely updates on Orders so that Customers can stay Informed and know Exactly when their Order will be Ready.



Trained Professionals:

We have a Team of Trained Professionals to provide Exceptional Service and Support.



No Differentiation :

At Tool & Alloy Steel, We provide our Customers with the Best Service Possible, no matter what Quantity of Steel they Require.



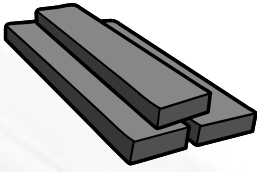
Ready Stock of all Sizes :

Our in-House Stock enables us to Provide you with a Wide Selection of Sizes and Quality.

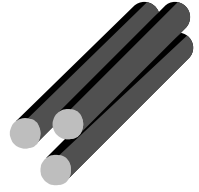


Same Day RFQ Reply:

We understand that Time is Important, Thus we offer same day RFQ Services – no longer you have to Wait for a Quotation.



Hot Die Steel-H13



It is Also Known As

| Hot Work Tool Steel | American (AISI) | WERKSTOFF (WNR) | Japanese (JIS) | German (DIN) | Bohler |
|---------------------|-----------------|-----------------|----------------|--------------|--------|
| | H13 | 1.2344 | SKD61 | X40CrMov5-1 | W302 |

What is Hot Die Steel H13 ?

It is a Raw Material which has a Very Good High Temperature Characteristics & Excellent Toughness Combined with Resistivity to Heat Checking

H13 Is Used in ?

- Pressure Die Casting
- Extrusion Dies
- Gripper Dies
- Rames
- Drop Forging Dies
- Moulds/Die For Street Light
- Metal Track Pressure Tools
- High Stressed Internal Boxes
- Little Tube Pressing Mandrels For Water Cooling
- Die-Casting tools, Punches etc.

| | | | |
|--------------------------------|-------|---------------------------------|-----------|
| Hardness After Tempering (HRC) | 48-52 | Hardness Before Tempering (HRC) | Approx 25 |
|--------------------------------|-------|---------------------------------|-----------|

Chemical Composition Of H13

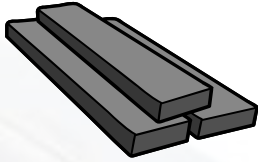
| C | Si | Cr | V | Mo |
|-----------|-----------|-----------|-----------|-----------|
| 0.35-0.40 | 0.80-1.00 | 4.75-5.25 | 0.80-1.00 | 1.10-1.50 |

Heat Treatment of H13

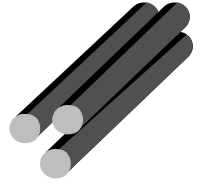
| Forging | Annealing | Hardening | Quenching | Tempering |
|----------|-----------|-----------|-----------|-----------|
| Temp. °C | Temp. °C | Temp. °C | Medium | Temp. °C |
| 1100-900 | 740-780 | 1070-1150 | | 600-680 |

Form Of Supply

| | |
|--|--|
|  Round |  Flat |
|--|--|



High Carbon High Chromium : Die Steel D3



It is Also Known As

| Cold Work Tool Steel | American (AISI) | WERKSTO FF (WNR) | Japanese (JIS) | German (DIN) | Bohler |
|----------------------|-----------------|------------------|----------------|--------------|--------|
| | D3 | 1.2080 | SKD1 | X210Cr12 | K100 |

What is Die Steel D3 ?

Hchcr D3 Steel is a Raw Material Which Contains High Attainable Hardness. It displays Excellent abrasion/wear Resistance and has Good Dimensional Stability and High Compressive Strength.

D3 is Used in ?

- Punches ● Cutters ● Cold Extrusion Tools & Dies ● Blades
- Stamping Dies ● Rolling Mill ● Thread Rolling Die ● Hobs ● Draw
- Plates & Dies ● Pressure Casting Moulds ● Blanking ● Reamer
- Finishing Rolls For Tyre Mills etc.

| | | | |
|--------------------------------|-------|---------------------------------|-----------|
| Hardness After Tempering (HRC) | 58-64 | Hardness Before Tempering (HRC) | Approx 25 |
|--------------------------------|-------|---------------------------------|-----------|

Chemical Composition Of D3

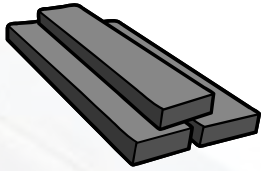
| C | Si | Mn | Cr |
|-----------|-----|-----|-------------|
| 1.75-2.25 | 0.3 | 0.3 | 11.00-13.00 |

Heat Treatment Of D3

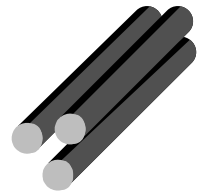
| Forging | Annealing | Hardening | Quenching | Tempering |
|----------|-----------|-----------|-----------|-----------|
| Temp. °C | Temp. °C | Temp. °C | Medium | Temp. °C |
| 1050-850 | 800-850 | 920-980 | | 100-350 |

Form Of Supply





High Carbon High Chromium : Die Steel D2



We Have Two Types Of D2 Steel

- D2 KNL
- D2 KMV

The Difference Between These Two Material Is of Quality As Chemical Compositions Are Different In Each Other.

D2 KMV Is Also Known As

| Cold Work Tool Steel | American (AISI) | WERKST OFF (WNR) | Japanese (JIS) | German (DIN) | Bohler |
|----------------------|-----------------|------------------|----------------|--------------|--------|
| | D2 KMV | 1.2379 | SKD11 | X155CrVMo | K110 |

D2 KNL Is Also Known As

| Cold Work Tool Steel | American (AISI) | WERKST OFF (WNR) | Japanese (JIS) | German (DIN) | Bohler |
|----------------------|-----------------|------------------|----------------|--------------|--------|
| Temp. °C | D2 KNL | 1.2601 | - | X165CrMoV12 | K105 |

What Is Die Steel D2 ?

It is a Raw Material which Contains High Attainable Hardness & large Amount of Chromium-Rich Alloy Carbides in the Microstructure Which Provides An Effective Combination of Wear Resistance & Toughness

D2 Steel Is Used In

- It Is Commonly Used In Cold Working: Stamping or Forming Dies ,
- Tools ● Punches ● Knives ● Slitters ● Shear blades ● Forming Rolls
 - Scrap choppers ● Tyre shredders ● Cold Extrusion Tools & Dies
 - Pressure Casting Moulds ● Blanking ● Reamers etc.

| | | | |
|--------------------------------|-------|---------------------------------|-----------|
| Hardness After Tempering (HRC) | 58-64 | Hardness Before Tempering (HRC) | Approx 25 |
|--------------------------------|-------|---------------------------------|-----------|

Chemical Composition Of D2 KMV

| C | Si | Mn | Cr | V | Mo |
|-----------|-----------|-----------|-------------|-----------|-----------|
| 1.40-1.60 | 0.10-0.60 | 0.20-0.60 | 11.00-13.00 | 0.70/0.90 | 0.70/0.80 |

Chemical Composition Of D2 KNL

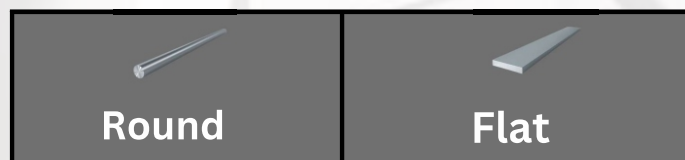
| C | Si | Mn | Cr | V | Mo | Tng |
|-----------|-----------|-----------|-------------|-----------|-----------|-----------|
| 1.40-1.60 | 0.40-0.60 | 0.20-0.60 | 11.00-13.00 | 0.20-0.30 | 0.40-0.50 | 0.40-0.60 |

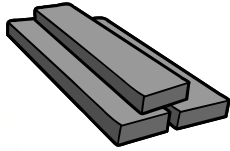
Both Material Are Good, its up to you to Choose the Right Material As Per Your Working

Heat Treatment Of D2KNL & D2KMV

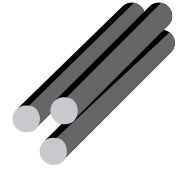
| Forging | Annealing | Hardening | Quenching | Tempering |
|----------|-----------|-----------|-----------|-----------|
| Temp. °C | Temp. °C | Temp. °C | Medium | Temp. °C |
| 1065-954 | 871-899 | 815-1010 | | 177-204 |

Form Of Supply





HIGH SPEED M2 STEEL



| High Speed M2 Steel | American (AISI) | WERKSTOFF (WNR) | Japanese (JIS) | China (GB) |
|---------------------|-----------------|-----------------|----------------|------------|
| | M2 | 1.3344 | SKH51 | W6Mo5Cr4V2 |

What Is High Speed M2 Steel ?

M2 High Speed Steel offers high toughness combined with good cutting powers and will withstand increases in temperature without losing its temper.

High Speed M2 Steel Is Used In

M2 Steel is widely used in the production of machine tool bits ● Cold Forming tools and cutting tools ● Twist drills ● Reamers ● Broaching Tools ● Taps ● Milling Tools Metal saws ● Extrusion Rams & Dies ● Cutting Tools etc.

Hardness After Tempering (HRC)

58-64

Hardness Before Tempering (HRC)

Approx 25

Chemical Composition Of M2 Steel

| C | Mo | Tng(W) | V | Cr | Mn | Si |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.80 - 0.85 | 4.60 - 4.90 | 5.80 - 6.20 | 1.70 - 2.00 | 4.00 - 4.20 | 0.20 - 0.40 | 0.20 - 0.40 |

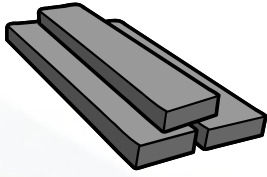
Heat Treatment Of M2 Steel

| Forging | Annealing | Hardening | Quenching | Tempering |
|----------|-----------|-----------|-----------|-----------|
| Temp.°C | Temp.°C | Temp.°C | medium | Temp.°C |
| 850-1150 | 800-850 | 900-12000 | - | 500-650 |

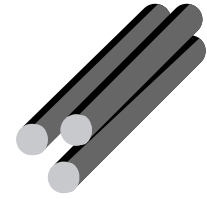
Form Of Supply

Round

Flat



EN31



En31 is Also Known As

| European | American (AISI) | WERKSTOFF (WNR) | Japanese (JIS) | German (DIN) | Bohler |
|----------|-----------------|-----------------|----------------|--------------|--------|
| EN31 | A295 | - | G4805 | 17230/1.350 | - |

What is EN31 Steel ?

It is a Raw Material which Achieves a High Degree of Hardness With Compressive Strength and Abrasion Resistance.

EN31 Steel is Used in

- It is Commonly Used in :
- Mould/Dies
 - Taps
 - Gauges
 - Swaging
 - Dies
 - Ejector Pins
 - Ball & Roller Bearings
 - Automobile
 - Applications such as Heavy Duty Gear
 - Shaft
 - Pinion
 - Camshafts
 - Gudgeon Pins
 - Machining Components , etc

| | |
|--------------------------------|-------|
| Hardness After Tempering (HRC) | 59-65 |
|--------------------------------|-------|

| | |
|---------------------------------|-----------|
| Hardness Before Tempering (HRC) | Approx 25 |
|---------------------------------|-----------|

Chemical Composition Of EN31

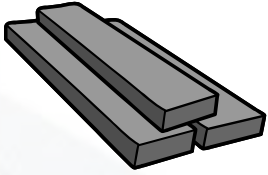
| C | Si | Mn | P | S | Cr |
|-----------|-----------|-----------|-----------|-----------|----------|
| 0.90-1.20 | 0.10-0.35 | 0.30-0.75 | 0.050 max | 0.050 max | 1 - 1.60 |

Heat Treatment Of EN31

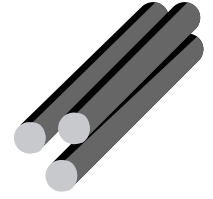
| Forging | Annealing | Hardening | Quenching | Tempering |
|-----------|-----------|-----------|-----------|-----------|
| Temp. °C | Temp. °C | Temp. °C | Medium | Temp. °C |
| 1050-1000 | 780-800 | 800-860 | - | 150-225 |

Form Of Supply





Plastic Mould Tool Steel P20



We Have Two Types Of P20 Steel

- P20
- P20+Ni

The Difference Between These Two Material Is of Quality As Chemical Compositions Are Different In Each Other

P20 Is Also Known As

| Plastic Mould Tool Steel | American (AISI) | WERKSTOFF (WNR) | Japanese (JIS) | German (DIN) | Bohler |
|--------------------------|-----------------|-----------------|----------------|--------------|--------|
| | P20 | 1.2311 | - | 40CrMnM07 | W330 |

P20+Ni Is Also Known As

| Plastic Mould Tool Steel | American (AISI) | WERKSTOFF (WNR) | Japanese (JIS) | German (DIN) | Bohler |
|--------------------------|-----------------|-----------------|----------------|-----------------|--------|
| | P20+Ni | 1.2738 | - | 40CrMnNiMo8-6-4 | - |

What Is P20 Steel ?

It Is a Raw Material Which is Mainly used in Pre-Hardened Condition, As it Comes With Uniform Hardness Which Saves Hardening After Machining. It Provides As Effective Combination Of High Wear & Corrosion Resistance With Easy & High Surface Finishing

P20 Steel Is Used In

It is Commonly Used in Mould for Plastic Products: ● Mould Inserts/Frames ● Machine Tools Engineering ● Compression & Injection Moulds For Plastic Industry ● Die Casting Industries ● Mould Cores Exposed to High Flexural Stresses ● Extruder Screws etc.

Hardness (HRC)

28-32

Chemical Composition Of P20

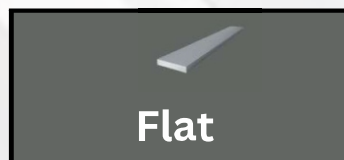
| C | Si | Mn | P | S | Cr | Mo | Ni |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| 0.35-0.45 | 0.20-0.40 | 1.30-1.60 | 0.035 max | 0.035 max | 1.80-2.10 | 0.15-0.25 | - |

Chemical Composition Of P20+NI

| C | Si | Mn | P | S | Cr | Mo | Ni |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| 0.35-0.45 | 0.20-0.40 | 1.30-1.60 | 0.035 max | 0.035 max | 1.80-2.10 | 0.15-0.25 | 1 |

Both Material Are Good, its up to you to Choose the Right Material As Per Your Working

Form Of Supply








S **BRIJ STEEL**

Contact Us



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