



DE - Brand:

RN15X[®]

Special Steel

Chemical composition: (Typical analysis in %)

C	Cr	Mo	Nb				
1,40	15,00	2,00	4,50				

Steel properties:

Stainless martensitic alloy, very high resistance against abrasive and adhesive wear due to a high volume of hard carbides. Dimensionally stable, compressive strength, secondary hardenable and therefore suitable for nitriding or coating (CVD/PVD).

Higher achievable hardness than AISI 420/420 ESR.

Applications:

Food processing industry, processing of abrasive polymers, stainless wear resistant parts, general tooling.

Condition of delivery:

Soft annealed to max. 255 HB

Heat treatment:

Soft annealing

Temperature	Cooling	Hardness
820-850°C	furnace	max. 255 HB

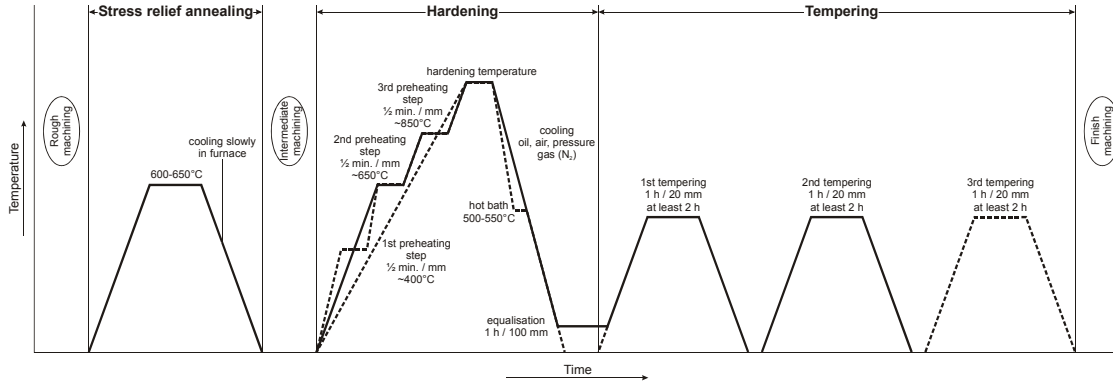
Stress relief annealing

Temperature	Cooling	
600-650°C	furnace	

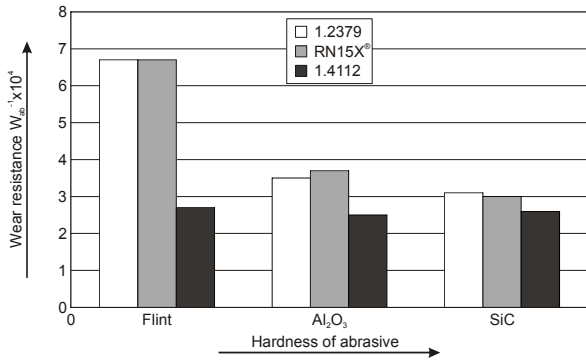
Hardening

Temperature	Cooling	Tempering
1090-1130°C	oil, pressure gas (N ₂), air or hot bath 500 - 550°C	see tempering diagram

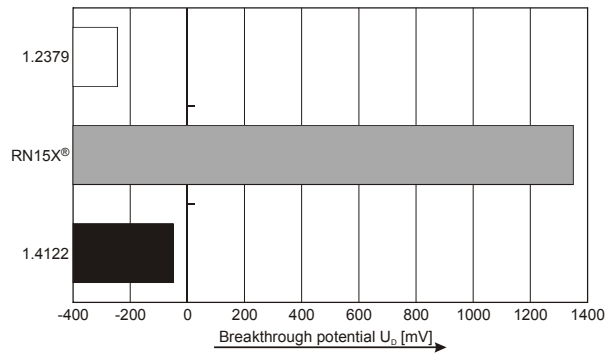
(RN15X[®]) Thermal Cycle Diagram



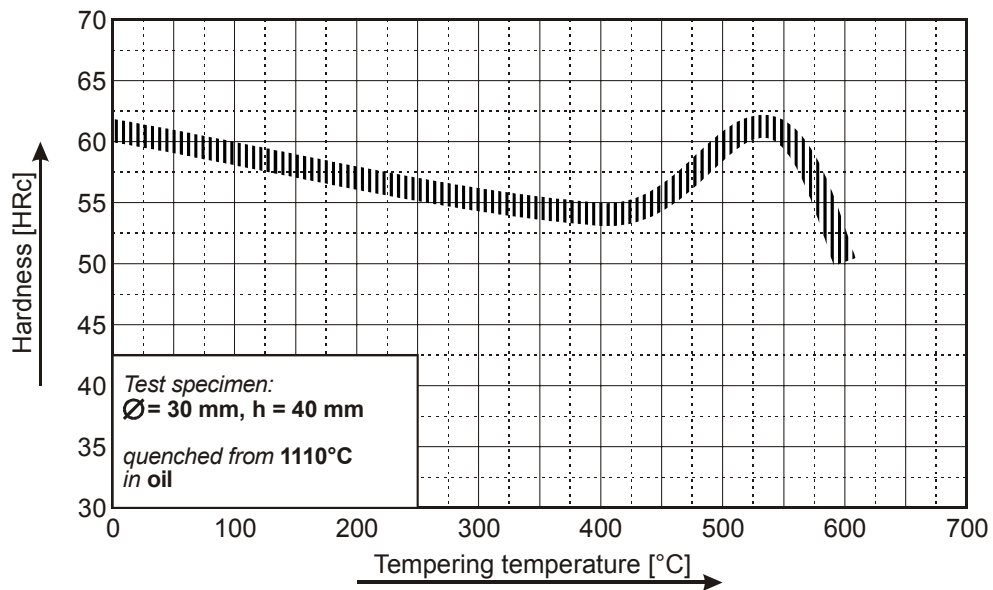
Abrasive wear resistance



Pitting corrosion resistance



Tempering Diagram



Remarks: All technical information is for reference only.