

STRUB Vulcodur HC 12/15, 19/22, 19/32, 22 EM

Evaporation-resistant high-performance quenching oils

Description

STRUB Vulcodur HC 12/15, 19/22, 19/32 and 22 EM are universal high-performance hardening oils based on high-quality, low-aromatic mineral oil solvent raffinates. Special additives ensure that particularly high cooling rates are achieved. STRUB Vulcodur 19/22 as well as 19/32, 22 EM are more resistant to evaporation.

Application

STRUB Vulcodur HC 12/15 low-viscosity high-performance quenching oil for hardening of unalloyed and low-alloyed steels, highest quenching intensity, very stable against oxidation and long service life.

STRUB Vulcodur 19/22 and 19/32 for forgings and automotive springs via a wide variety of gear parts for cars, trucks and machine tools up to large-dimensioned shafts and gears for marine gearboxes. Also well suited for hardening distortion-sensitive rolling bearing parts and tools made of high-alloy tool steels. STRUB Vulcodur HC 22 EM emulsifies with water and is therefore easy to clean or rinse.

Batch quenching in

- Multi-purpose chamber furnaces and gas carburizing piercing plants
- Shaft furnace and bell furnace plants
- Flat shell / pusher shell plants

Features and advantages

- particularly intensive and uniform quenching effect
- high evaporation resistance at low viscosity
- good washability and low quenching oil consumption
- thermally stable
- long oil life

Technical data

		HC 12/15	19/22	19/32	HC 22 EM
Art.-No.		31195	31184	30778	33140
Density / 20°C	g/cm ³	0.840	0.860	0.850	0.860
Viscosity 40°C	mm ² /s	14	22	32	22
Flash point COC	°C	190	224	230	225
Flash point COC	°C	210	248	254	249
Pour point	°C	-15	-15	-15	-12
Application temperature	°C	40 - 70	50 - 130 from 100°C protective gas blanketing		

Transport

ADR/SDR No dangerous goods

Disposal

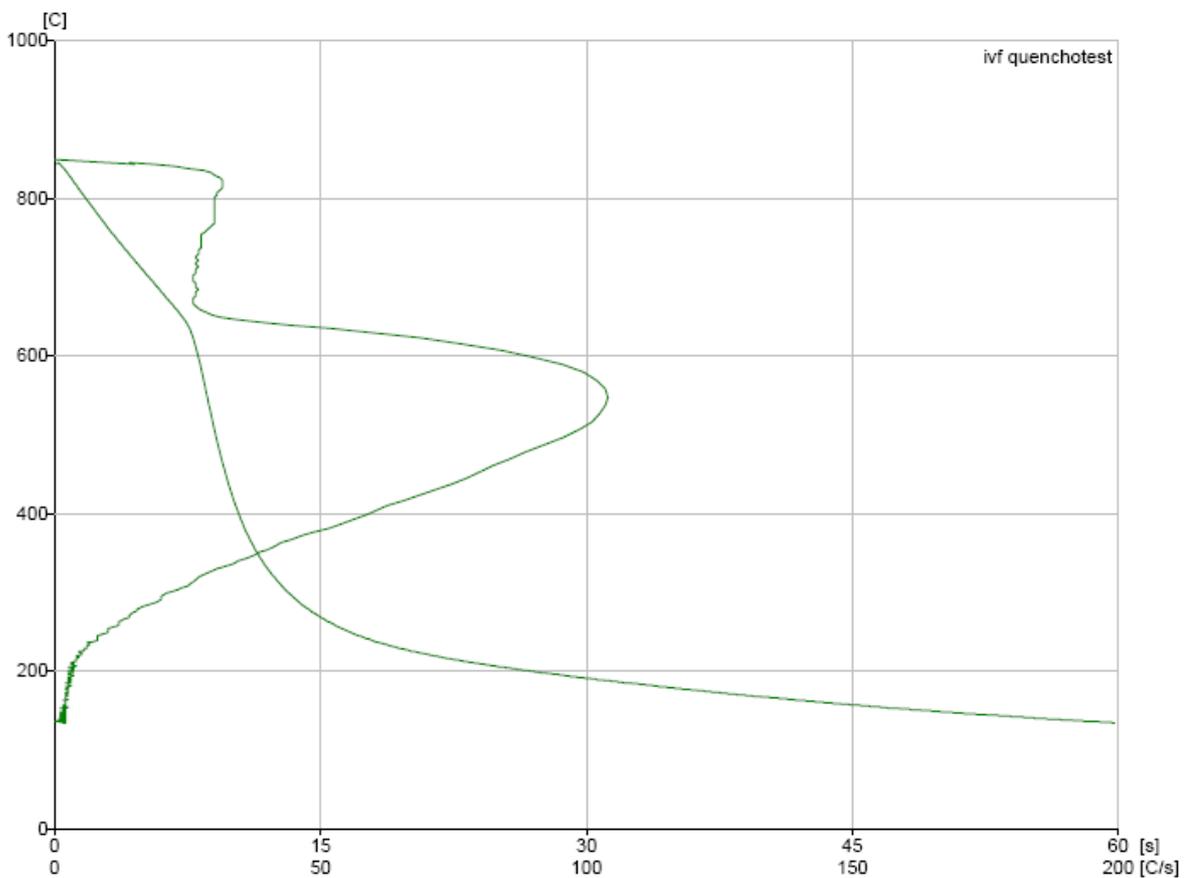
LVA VeVA / EAK: 12 01 07

The information in this technical data sheet is based on general knowledge and application possibilities. STRUB + Co. AG is not liable for damage resulting from improper use of the products. The industry-standard measurement and production tolerances apply to the specified characteristic. Generally, no legal binding can be derived from these data. Our products are subject to continuous further development. Therefore, STRUB + Co. AG reserves the right to change all technical data in this data sheet at any time and without prior notice.

Lieferant:	Strub + Co. AG, Reiden
Auftr. Nr.:	195735
Kunde:	Strub + Co. AG, Reiden
Probe Nr.:	20703
Herkunft:	Probe vom 19.1.07
Database:	STRUB.QCW
Date:	24.01.2007

Medium:	Vulcodur 12/15
Temperatur:	60 C
Umwälzung:	keine
Konzentration:	0 %
Prüfstab Nr.:	167.0

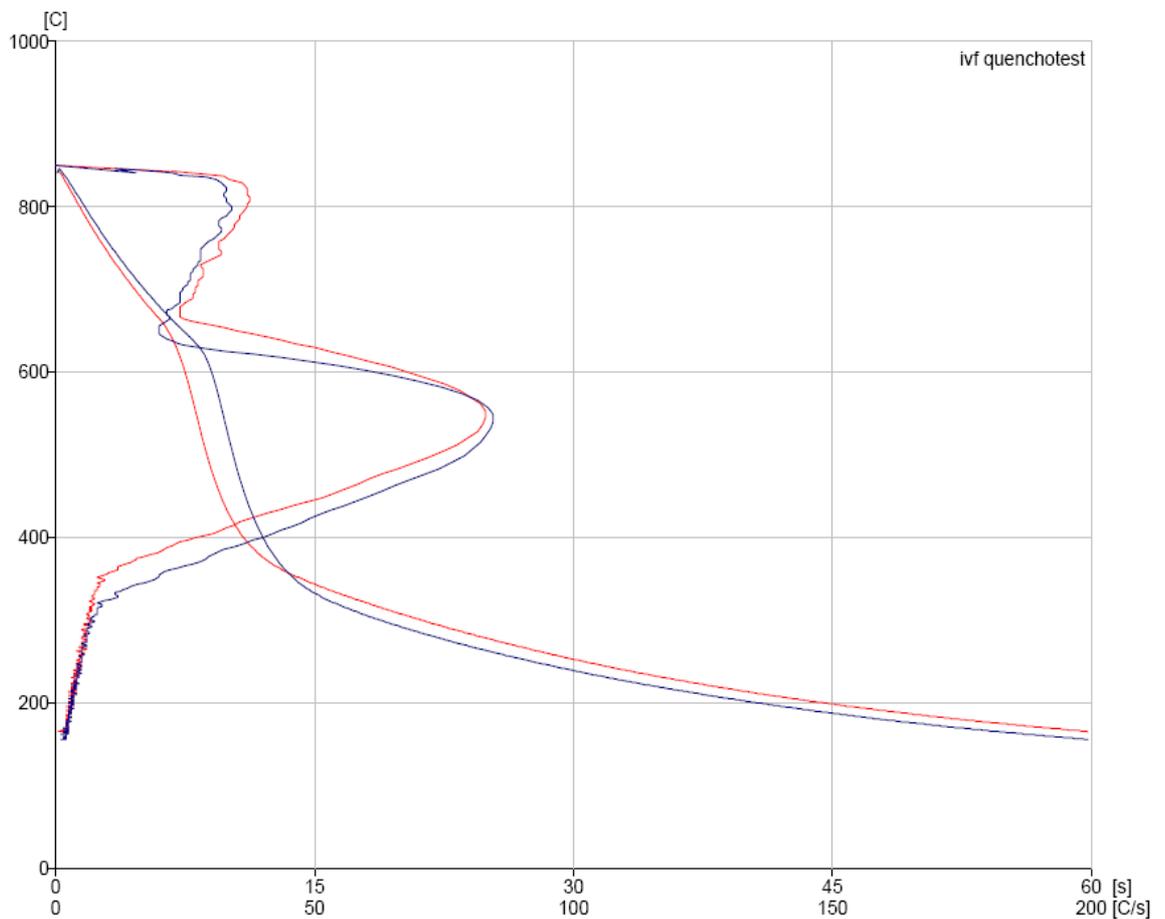
— 20703 Vulcodur 12/15 104 [C/s] at 547 [C]
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Lieferant: Strub + Co. AG, Reiden
 Auftr. Nr.: 195735
 Kunde: Strub + Co. AG, Reiden
 Probe Nr.: 20701,V1 / 20702,V2
 Herkunft: Probe vom 19.1.07
 Database: STRUB.QCW
 Date: 25.01.2007

— 20701 Vulcodur 19/22 83 [C/s] at 553 [C]
 — 20702 Vulcodur 19/22 85 [C/s] at 549 [C]

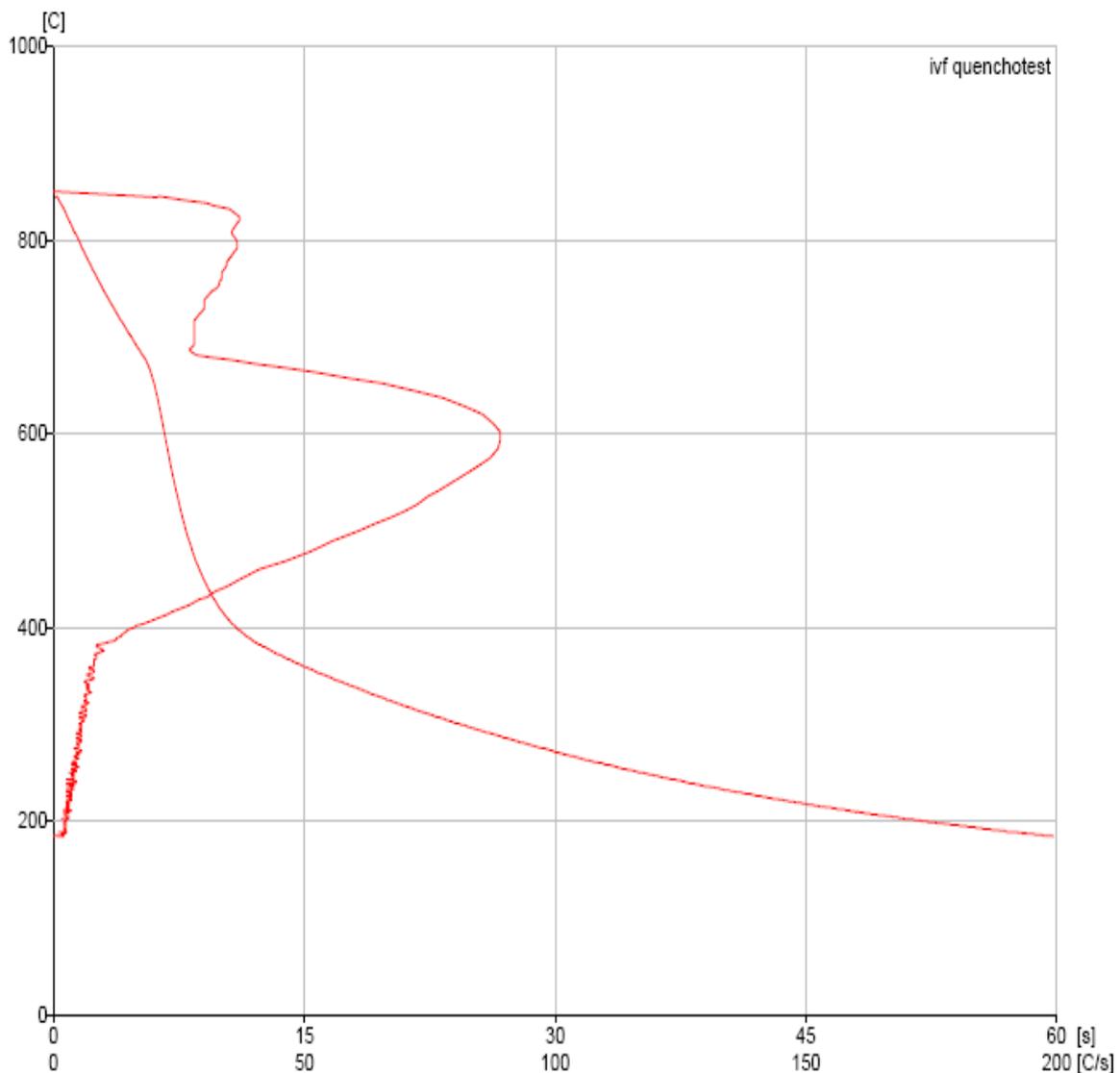


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Lieferant:	Strub & Co AG, Reiden
Auftr. Nr.:	195431
Kunde:	Strub & Co AG, Reiden
Probe Nr.:	7
Herkunft:	neu Nr.1
Database:	STRUB.QCW
Date:	15.06.2005

Medium:	Vulcodur 19/32
Temperatur:	85 C
Umwälzung:	keine
Konzentration:	0 %
Prüfstab Nr.:	167.0

— 7 Vulcodur 19/32 89 [C/s] at 602 [C]

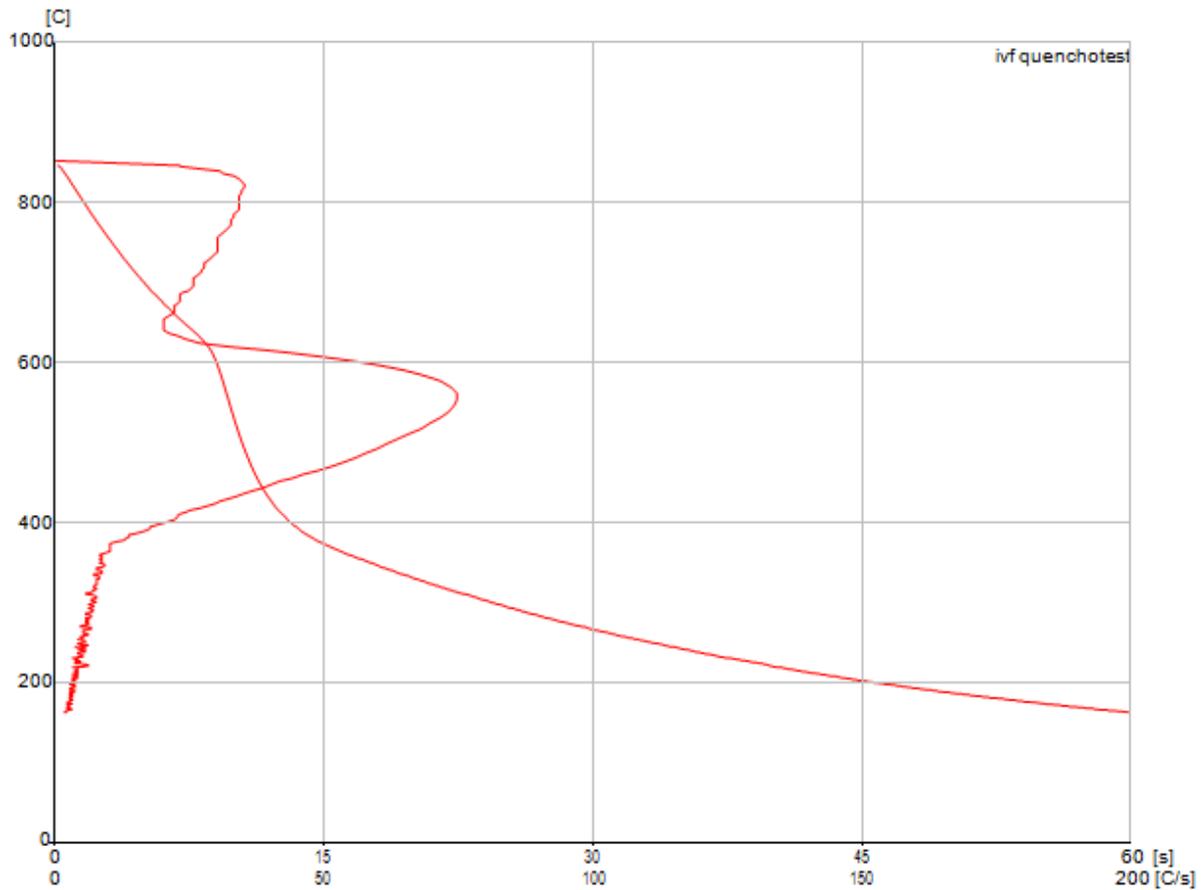


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Kunde:	Strub AG
Auftragsnr.:	2017-0109722-1
Referenz:	M. Strub
Herkunft:	33140
Entnahmedatum:	11.09.2017
Bemerkung:	Endmessung
Prüfdatum:	12.10.2017

Quenchant:	Strub Vulcodur 22 EM
Temperatur:	60 C
Agitation:	
Prüfstabnr.:	162.0

— 20171 Strub Härteöl 75 [C/s] at 559 [C]



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