

Belec Spektrometrie
Opto-Elektronik GmbH

OES CALIBRATION SPECIFICATION

Instrument : Belec de-tect
Matrix : Fe - Base

	Fe-Ref.	Fe alloyed	Cr alloyed	Cr- Ni alloyed
X	C	0.01 - 2.2	0.01 - 2.2	0.01 - 2.2
X	Si	0.01 - 3.5	0.01 - 3.5	0.01 - 3.5
X	Mn	0.01 - 2.5	0.01 - 2.5	0.01 - 2.5
X	P	0.005 - 0.45	0.005 - 0.45	0.005 - 0.45
X	S	0.005 - 0.15	0.005 - 0.15	0.005 - 0.15
X	Cu	0.01 - 1.4	0.01 - 4.0	0.01 - 4.0
X	Al	0.005 - 1.4	0.005 - 1.4	0.005 - 1.4
X	Cr	0.01 - 5.0	0.1 - 28.0	0.1 - 28
X	Mo	0.01 - 2.3	0.01 - 3.5	0.01 - 7.0
X	Ni	0.01 - 5.0	0.01 - 5.0	0.1 - 38.0
X	V	0.01 - 1.2	0.01 - 1.2	0.01 - 1.2
X	Ti	0.005 - 0.4	0.005 - 1.2	0.005 - 2.2
X	Nb	0.005 - 0.6	0.005 - 1.2	0.005 - 1.2
X	Co	0.01 - 1.4	0.01 - 1.4	0.01 - 1.4
X	W	0.01 - 3.0	0.01 - 3.0	0.01 - 1.5
X	Pb	0.01 - 0.15		
X	Sn	0.005 - 0.5		
X	B	0.0005 - 0.06		

X = Standard configuration
O = Optional

Additional elements or wider ranges on request

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OES CALIBRATION SPECIFICATIONS

Instrument : Belec de-tect
Matrix : Fe-Base (optional sub-programs)

	Fe-Ref.	O	O	O
		High Mn + Cr	High Mn + Cr + Ni	HSS (Tool Steel)
X	C	0.01 - 2.2	0.01 - 2.2	0.01 - 3.2
X	Si	0.01 - 3.5	0.01 - 3.5	0.01 - 1.2
X	Mn	0.01 - 20.0	0.01 - 20.0	0.01 - 1.3
X	P	0.005 - 0.45	0.005 - 0.45	0.005 - 0.1
X	S	0.005 - 0.1	0.005 - 0.1	0.005 - 0.1
X	Cu	0.01 - 1.4	0.01 - 4.0	0.01 - 0.5
X	Al	0.005 - 1.4	0.005 - 1.4	0.005 - 1.2
X	Cr	0.01 - 28	0.1 - 28	0.1 - 12
X	Mo	0.01 - 2.3	0.01 - 7.0	0.1 - 10
X	Ni	0.01 - 5.0	0.1 - 38.0	0.1 - 1.0
X	V	0.005 - 1.2	0.005 - 1.2	0.1 - 10.0
X	Ti	0.005 - 0.4	0.005 - 2.2	0.005 - 1.2
X	Nb	0.005 - 0.6	0.005 - 1.2	0.005 - 0.3
X	Co	0.01 - 1.4	0.01 - 1.4	0.1 - 10.0
X	W	0.01 - 3.0	0.01 - 1.5	0.1 - 21.0

X = Standard configuration

O = Optional

Additional elements or wider ranges on request

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OES CALIBRATION SPECIFICATIONS

Instrument : Belec de-tect
Matrix : Fe - Base (optional sub-programs)

	Fe-Ref.	O Free-Cutting Steel	O Free-Cutting Steel Cr alloyed	O Free-Cutting Steel Cr- Ni alloyed
X	C	0.01 - 2.2	0.01 - 2.2	0.01 - 2.2
X	Si	0.01 - 3.5	0.01 - 3.5	0.01 - 3.5
X	Mn	0.01 - 2.5	0.01 - 2.5	0.01 - 2.5
X	P	0.005 - 0.45	0.005 - 0.45	0.005 - 0.45
X	S	0.005 - 0.4	0.005 - 0.4	0.005 - 0.4
X	Cu	0.01 - 1.4	0.01 - 4.0	0.01 - 4.0
X	Al	0.005 - 1.4	0.005 - 1.4	0.005 - 1.4
X	Cr	0.01 - 5.0	0.1 - 28.0	0.1 - 28
X	Mo	0.01 - 2.3	0.01 - 3.5	0.01 - 7.0
X	Ni	0.01 - 5.0	0.01 - 5.0	0.1 - 38.0
X	V	0.005 - 1.2	0.005 - 1.2	0.005 - 1.2
X	Ti	0.005 - 0.4	0.005 - 1.2	0.005 - 2.2
X	Nb	0.005 - 0.6	0.005 - 1.2	0.005 - 1.2
X	Co	0.01 - 1.4	0.01 - 1.4	0.01 - 1.4
X	W	0.01 - 3.0	0.01 - 3.0	0.01 - 1.5
X	Pb	0.01 - 0.4		
X	Sn	0.01 - 0.5		

X = Standard configuration
O = Optional
Additional elements or wider ranges on request